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a magazine for shooters by shooters



1985

BENCHREST SHOOTER OF THE YEAR

DR. RICHARD MARETZO

PRECISION SHOOTING

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Harold Broughton

Dear Dave,

On Saturday August 17th the Gulf Coast Regional unrestricted matches were held at San Angelo.

I had fitted a new Hart 30 cal 1.450 barrel to a new top for my Hall rail gun, and chambered it for the 30 Aardvark. Neck turned 20 Winchester 30-30 cases, grabbed some of Speedy Gonzalez 110 and 135 grain bullets and my wife and I left Thursday afternoon after work and drove to San Angelo. I had done some small amount of testing with a sporter in the Aardvark with some light charges of H 322 powder with pretty good results but had done enough to really find out much about the round.

Friday was spent testing loads and bullets with both H 322 and H 4895 powder. Loads were worked up to about maximum. T.J. Jackson very graciously set up his chronograph and spent a lot of time with me, recording velocities with both bullet weights. Thanks to him we know how fast the darn thing is going. Last groups at both 100 and 200 yards were pretty impressive to me with both of these light bullets.

Here are some loads with the velocities and Culver measure settings. No scales handy so no weights are available and thus a word of caution. These are top loads, certainly okay in this barrel but are in no way meant to be taken and used by anyone without carefully working up from below.

Winchester 30-30 cases, 110 grain Speedy Gonzalez bullets, H 4895 Culver measure setting 68, Remington 9½ primers: 2851, 2859, 2867, 2869, 2869 f.p.s. velocities extreme spread was 18 feet per second.

H 4895 Culver setting 69, Federal 215 magnum primers: 2952, 2994, 2947, 2967, 2956 f.p.s. velocities extreme spread 47 feet.

H 4895 Culver setting 69, Remington 9½ primers (Absolute max for this primer): 2888, 2892, 2890, 2873, 2971 f.p.s. velocities extreme spread 98 feet.

With 4895 powder the Federal 215 primers gave quite a bit more velocity than

the Remington 9½. This did not really occur with the H 322 where there was approximately 10 feet spread which seems to prove to T.J. and myself anyway that the 4895 is harder to ignite than H 322.

All testing with the 135 grain bullet was done with H 322 powder.

30-30 cases, Culver setting 68, H 322 powder, Federal 215 primers: 2877, 2871, 2881, 2879, 2888, 2871 f.p.s. velocities, extreme spread 17 feet per second.

Finally some 748 was tried over the chronograph just to see how the velocity would compare with the 2 powders above. Only 7 rounds were fired with this powder. No accuracy testing or load development.

30-30 Winchester cases, Culver setting 68, Remington 9½ primers, 110 grain Speedy Gonzalez bullets, Winchester 748 powder (3067, 2991 Fouling shots) 3060, 2960, 2973, 2969, 3037 f.p.s. velocities, extreme spread was 91 feet per second.

The 68 click Culver setting, Federal 215 mag primers, the 110 grain bullets, and H 4895 powder were chosen to be the best and most accurate, and this selected to be shot Saturday for record.

I'm not used to shooting 30 cal in competition, so the groups sure did look large to me when I would look over at the 6 mm and 22's targets at the end of the time period, but they measured pretty small . . . and that's what counts. This combination took 3rd place at 100 yards, 3rd place at 200 yards and 4th in the Grand. As far as I know this is the first time an Aardvark has been shot in competition. The fact that it did not win certainly wasn't the fault of the cartridge or the rifle. The largest group fired at 200 yards measured 1.061 with 9 shots in .600. The smallest measured .770 with 8 of them in less than .400.

This light 30 cal bullet really impresses me, especially at 200 yards because conditions were pretty rough and some pretty large groups were shot by some of the other shooters. In fact it impressed me so much I told Speedy to send me 2 thousand more of them and I would shoot them in the State Championship matches the last of September at Fort Stockton.

The Hunter rifle shooters are certainly missing the boat I think by not trying this cartridge and bullet combination.

Enough for now.

Best Regards
Harold Broughton

Letter To The Editor

Dear Dave,

Reference the cover photo of the 1949 match at Johnstown on the cover of the July issue.

First of all, I believe that the single shot rifle is a Hauck, as made by Wilbur Hauck, of Arlington, Vermont.

The first man standing on the left side, right hand on hip, is George Schielke, GUNSMITH, and I do not use the word lightly. He was a good friend of Al Marcic, and also a good friend of mine. Last I heard from him, he was at Washington Crossing, New Jersey.

Bo Clerke
Littlerock, California

Editor: The gentleman with the straw hat in the background, facing the camera directly, is Fred Huntington. On page #2 of Bob Wallack's book, "Modern Accuracy" is a photo of 1949 Johnstown . . . and Fred Huntington is wearing that same hat in the photo.

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BENCHREST SHOOTER OF THE YEAR 1985

By
The Editor

On September 7th and 8th, at the St. Louis range, the ninth and final match of the 1985 Benchrest Shooter of the Year designated match series was held.

If you do not shoot competitively, or if you were only casually interested at best . . . in the outcome . . . it was . . . well, a weekend like any other weekend. But if you were one of those who were into this thing . . . either as competitors or interested spectators . . . it was a pretty tense time.

The two preceeding years had been each won by Don Geraci . . . and each year Mr. Geraci had run off and hidden from the field of would-be pretenders to the crown. In 1984 Tony Boyer had a real longshot chance to pull it out of the fire in the final match . . . and that effort fell short. Barring that longshot, Mr. Geraci sort of took all the suspense out of things . . . in 1983 and 1984. Ah, but 1985 was fated to be different. It is hard, indeed very hard, to maintain both the competitive drive, and the equipment's gilt edge condition over an extended period of time. In 1985 Don Geraci

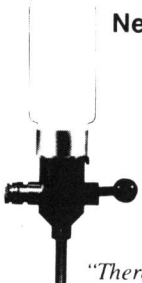
was to prove himself only human . . . and a battle-royal was to develop among a handful of shooters of both the NBRSA and the IBS world. And several of the leading figures in that brawl were to collide . . . head-on . . . in St. Louis on September 7th. They traveled hundreds, even thousands of miles to get there . . . and finally, in the tradition of the western gunfighters . . . they said . . . "I'm here. And all the chips are on the table. Should be a good card game. I'll open the betting".

Who was there . . . in St. Louis, that weekend?

DICK MARETZO . . . in from New Jersey, with 14 points, and holding on to a narrow two point lead . . . here to shoot at St. Louis for the first time, and since Saturday was to be a night-time shoot . . . firing for the first time under those circumstances. But a shooter certainly capable of shooting "in the teens", as he has done repeatedly. LOWELL FREI, in from St. George, Utah, virtually on the California border. With 12 points, Mr. Frei was far from out of it . . . only 4 points behind . . . and 10 points were up for grabs here in St. Louis. Another shooter entirely capable of shooting "in the teens", and as Caesar said about Cassius . . . "such men are dangerous". DENNIS WAGNER, in from Bethany, Oklahoma, with 11 points, and 5 points behind the leader, Maretzo. A leader ealy in the contest, but beset with minor

problems since . . . but who could doubt his competitive desire? Shooters in Oklahoma, who lack confidence in themselves, do not travel to Johnstown, or St. Louis to shoot with the best of the sport's shooters, and try to regain that first position. Furthermore, with only ten points available in St. Louis, lesser men, five points down, stay home and watch television. No one that I am familiar with has, in recent years, considered either Maretzo . . . Frei . . . or Wagner . . . as "lesser men".

And who was not there? NATE BOOP, in second place with 14 points, just 2 points out of first place. But forced to stay home, as this was the weekend of his club's second registered shoot, at Wekert, Pa. Here we will go to the opposite of a philosophy expressed above . . . a lesser individual might have convinced himself that the club could have handled the match . . . and left for St. Louis, to duke this thing out. Neither is Nate Boop a lesser man . . . he stayed, and ran the match . . . and 52 shooters made it a great match. And LESTER BRUNO, another shooter within striking distance, with 12 points, and certainly one of the most talented wind shooters in recent days of the sport. But now, beset and bedeviled by equipment problems, Lester elected to shoot instead at Nate Boop's local match. And JERRY MASKER, certainly the dominant heavy bench-unlimited class shooter of 1985. But



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born with a bit less than the vision of eagles, Jerry's specialty is a Seely Masker smithed Bill Hall rail gun which he shoots with a vengeance, and with an uncanny skill. But the heavy class was not to be contested in St. Louis, and Jerry elected to stay home (near Buffalo, New York), and get ready for the first blizzard (which usually hits right around September 7th anyway).

Finally, among the names of those not at St. Louis, was DON GERACI. Mr. Geraci, with 8 points. And somehow, the rumor got started "Geraci's coming to St. Louis. Maretzo has 16 points there are 10 points up for grabs if he sweeps the board takes all 10 he CAN do it". Somehow the rumor snowballed. I was getting calls from shooters who SWORE that they KNEW FOR CERTAIN that he was coming. "He isn't going to lose the title without a fight". And shooters I talked to often expressed a common thought "you know, if there is one shooter in the country capable of going on an absolute tear and sweeping all 10 points on a given weekend if he were to get hot it's Don Geraci". While Mr. Geraci did not make it to St. Louis he can take some pride in the fact that there was a pretty fair number of people who thought that he was the one guy in the country who could have swept the board at St. Louis. One does not win Benchrest Shooter of the Year twice in a row without picking up a heavy rep.

So they met collided at St. Louis; Maretzo, Frei, and Wagner. With all the chips on the table. And Dick Maretzo picked up 6 of the 10 points, Lowell Frei grabbed 2, and Dennis Wagner was shut out.

DICK MARETZO, with 22 points, won the 1985 Benchrest Shooter of the Year award. The irrepressible dentist from Mahwah, New Jersey won the title by a

healthy margin, and should prove to be an entirely popular champion. It might be possible to find someone that doesn't like Dick Maretzo but I would have absolutely no idea where to begin looking.

In winning the 1985 championship, Dick Maretzo used three guns all of which the editor knows by heart:

Heavy varmint: Shilen DGA action, Hart barrel chambered for 6 PPC, Leupold 36x scope, Lee Six thumbhole stock, 29.5 grains of Norma 201 with Euber 68 grain boat-tail bullets and Federal primers, in a rifle smithed by Seely Masker. Bullets shot just touching the lands.

Light varmint: Almost a carbon copy of the above, but using a short Shilen DGA action, and a rifle scaled to meet the 10½ pound limit.

Heavy bench: A 6 PPC Bill Hall rail gun, smithed by Seely Masker, and using a sleeved Wichita model 1375,

Our personal congratulations to all those who made it a horse-race in 1985 sufficiently close that the chips were indeed all on the table in St. Louis with at least a half-dozen shooters having an outside shot at the title. The editor had many friends who were in the thick of things and while Dick Maretzo is a specially close friend there were many in the running that would have been a worthy champion, for the year 1985.

Thank you all of you Those with goodly numbers of points Those with only a few points Those with no points at all Those who gave it their best effort in 1985. You made it a fun year and a good year for benchrest.

BENCHREST SHOOTER OF THE YEAR 1985

Final Standings

1) Dick Maretzo	22 points
2T) Nate Boop	14 points
2T) Lowell Frei	14 points
4) Lester Bruno	12 points
5T) Dennis Wagner	11 points
5T) Jerry Masker	11 points
7) Don Geraci	8 points
8T) Ed Watson	6 points
8T) Larry Mixon	6 points
8T) L.M. Kirkpatrick	6 points
8T) Glenn Newick	6 points
12) Ron Hoehn	5 points
13T) Larry Engelbrecht	3 points
13T) Bill Gammon	3 points
13T) Dave Brennan	3 points
16T) Walt Berger	2 points
16T) Daniee Tincani	2 points
16T) Bob Wirthlin	2 points
16T) Gary Sandlin	2 points
16T) Larry Baggett	2 points
16T) Jim Oliver	2 points
16T) Bob White	2 points
23T) Bill Fazio	1 point
23T) Mike Scheltz	1 point
23T) Harry Hoppe	1 point
23T) Ed Goff	1 point
23T) Paul Kempfer	1 point
23T) Bob DeMonstoy	1 point
23T) Frank Obrochta	1 point
23T) Carl Lynn	1 point
23T) Ed Hoard	1 point
23T) Joe Hughes	1 point

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Creighton Audette

Dear Dave:

The September issue of "Precision Shooting" arrived today and I write to take the editor to task.

1. You left out two words in my letter that you published. a. The word **not** in the sentence, "Thus a bullet just barely stable in the 14" twist at 3200 fps might not be stable at 3662 in the 16" twist under the same atmospheric conditions." b. In the reference to bullet stability of the 5.56 mm, you left out the word **greater**, " — creating greater wound damage —."

2. You misquote me in regard to the type of rifling used in the Obermeyer barrel on my Swing and used by the majority of the members of the Palma Team at Bisley, England, last month. I am quite sure I did not use the word "polygonal", nor does Boots use that term. He refers to it as "5R". It is five groove rifling and the sides of the lands are at a noticeable angle away from radial, with a radius at both the corners of

the grooves and the corners of the lands. Properly, I think, polygonal rifling is the type used by Whitworth in the 1850's and there has been some interest in it in recent years. Heckler & Koch have used it on pistol barrels and rifle barrels, putting a radius at the corners of the polygon, which form the bottom of the grooves. Obermeyers design has a substantial, radial surface at the bottom of the grooves. I think his design provides a better gas seal with jacketed bullets and puts less stress on the bullet jacket in its passage into the throat and down the bore. Just recently, I saw a barrel made by another maker, which is similar to Obermeyer's design and was informed that it was being called "polygonal" rifling. It is not polygonal in the accepted sense of the word.

P-S readers will be interested to know that there were teams from ten nations entered in the Palma Match, 16 firing members per team, 2 sighters and 15 shots

for record, per man, at 800, 900, and 1000 yards. 22 people on a team, including officials and coaches. 14 of the winning U.S. team fired Obermeyer barrels in the Palma, beating the Brits on their own ground by 26 points, 3403 to 3377! All teams must use the ammunition furnished by the host country, which is a selected lot of 7.62 NATO, military ammunition, with a 144 grain, boattail bullet. Out of our 30", Obermeyer barrels, it chronographed over 2900 fps. Match was fired in wind and rain, sometimes heavy enough to necessitate a cease fire because of poor visibility. Maximum wind used in the Palma was 12 to 14 minutes, but one, individual match at 1000, during the week previous to the Palma required 22 to 24 minutes with the light, NATO bullet.

There was also a black powder, lead bullet match fired at 800, 900 and 1000, with teams from Great Britain shooting original, long range, muzzle loading rifles and teams from Canada and the U.S. shooting cartridge rifles in calibers such as those used for this type of shooting in the late 1800's. The U.S. team, sponsored by the American Single Shot Rifle Association won that one! Yours truly built the rifle that fired the high individual score in the hands of Palma Team member Art Jackson, of Wolfeboro, N.H. (As team captain of the Palma, I was occupied with other matters.) I made the mold for the 525 grain, .45 caliber, paper patched bullet, learned how to patch the bullets, worked out the loads and the elevation data for long range. Fired at Mansonville, Quebec, in testing, it took 132 minutes of elevation to center on the target at 1000. At Bisley, closer to sea level and with greater humidity, the same loading, at the same velocity of 1400 fps took 15 minutes more to center at 1000.

Relative to the Swing action. I had a phone call from George Swenson this week asking me to provide him with a Remington trigger because he had some one who was insisting on using a Swing action with a Remington, 2 oz. trigger. (Merrill Martin????) (Editor: No, the Editor).

I met Merrill Martin at Bisley and we had a good talk. Wish there had been more time, but he was only there a few days during the Match Rifle Competitions and I was terribly busy.

Might add that the smallbore program started at Bisley a couple weeks after we left and the U.S. team won the Lord Roberts match against the Brits by 1 point! Altogether, a very successful year for the Yanks at Blighty!

Best regards,
Creighton

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LEFT THE RANGE

J.L. "POKEY" BONNER, of Cross Plains, Texas, died September 25, 1985, after a month-long illness. Pokey was a former NBRSA Director, and was one of the driving forces in setting up the Gulf Coast Region many years back. He was a tireless worker; one of those who did more for the sport than he took out of the sport.

— WE ARE DIMINISHED —

The Redding Powder Measure

Dear Dave,

I enjoyed reading Rick Hornbeck's article on the conversion of the Redding #3BR powder measure in the September issue.

It seems simple enough to do. The only reason for my writing this letter is that I may have (accidentally) found a simpler way yet to solve the problem that many of us find with the #3BR . . . how to change the drum rotation from the "drop" position to the "charge" position.

This was accomplished simply by rotating the measure's handle a full 180 degrees. In this position the handle acts to counter-balance the micrometer assembly. The basic reason that I rotated the handle was that it felt more natural to turn the handle downwards when dropping powder charges than to turn it up as pictured in the Redding literature. The corner of the handle may have to be slightly filed to allow removal of the set screw with the measure handle attached.

Jerry Schmidt
Houston, Texas

Overheard At A Match

Everett Amundgaard, at the Coopers-town, North Dakota match on June 8th . . . when the wind was gusting to 60 mph. "The way that wind is blowing, I had to point my rifle down wind to clean it. There was no way that I could push a patch through the barrel against that wind".

Courtesy of Ed Reiten

Editor: (Note that it sounds to me like the kind of story that Texans tell to visiting Yankees.)

Benchrest Supplies

ACCESSORIES

Bushnell Lt. Wt. 1" Scope Rings, pair	\$ 14.51
Bushnell Prof. Bore Sighter	\$39.97 Arbor \$ 7.97
Bushnell Sentry Spotting Scope, 20X or 32X	\$123.30
Bushnell Shooting Glasses, yellow	\$ 27.50
Davidson Action Wrench	\$ 30.00
Davidson V-Type Barrel Vise	\$ 36.00
Decker Rifle Vice, Benchrest Model	\$ 38.13
Gonzalez NBRSA Belt Buckle	\$ 10.50
Bill Hall Bolt Holster	\$7.50 Fancy \$ 9.95
Hart Front Rest Standard	\$ 81.95
Hart Competition Top Kit	\$ 30.85
Hart Front Rest w/Competition Top	\$ 96.60
MTM Caseguard 50 Cartridge Boxes	\$ 2.75
MTM A 760 Shooters Accessory Box	\$ 22.42
Sinclair Competition Top for Wichita	\$ 43.50
Tuller Sand Bags	Front \$7.50 Rear \$ 12.50
Wichita Rests	Cast Iron \$ 79.95

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Hall Stainless Steel Std. Action	\$625.00
Hall Stainless Steel Big Action	\$733.00
Hart 2 oz. Trigger	\$ 90.26
Shilen 2 oz. Trigger	\$ 79.50

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Hart S.S. Match Barrel	\$196.95
McMillan S.S. Match Barrel	\$197.95
Shilen S.S. Select Match Barrel, 6 Groove	\$199.50

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Metzger 6mm 62, 68 or 70g Match, Box of 100	\$ 11.00
Watson 22 cal. 52g Match, Box of 100	\$ 10.63
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Sierra 6mm x 740 Match Jackets	\$ 30.17
Sierra 30 x 1 150 Match Jackets	\$ 65.69
Avril Lead Wire 3/16" or 15/64" 25 lb.	\$ 29.95
MTM Plastic Bullet Boxes, 22 or 6mm	\$ 45

CLEANING EQUIPMENT

Bruno Special Brass Core Bronze Brushes, 22, 6mm, 7mm or 30 cal.	dozen, \$ 8.50
Dorsey Delrin Rod Guide	\$ 9.95
Hart Patches:	
1000 - 22s	\$ 7.03
500 - 6MM	\$ 5.43
Jackson Cleaning Rod Caddy	\$ 20.00
Marksman's Choice No. 7, 4 oz. bottle	\$ 4.75
MTM Bore Guide	\$ 3.92
Parker-Hale 22/6mm 37" Rod	\$ 13.80
Parker-Hale 22/6mm 44" Rod	\$ 14.87
Parker-Hale 30 cal. 37" Rod	\$ 13.80
Parker-Hale 30 cal. 44" Rod	\$ 14.87
Parker-Hale Brush Adapter	\$ 2.15
Parker-Hale Extra Jag	\$ 1.75
Rig, + P Bolt Lug Grease	\$ 3.00
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	5 lb. \$ 54.43
Hodgdon H-335, BLC(2), H-380	1 lb. \$ 11.40
	5 lb. \$ 54.40
Winchester 748	1 lb. \$ 11.14
	8 lb. \$ 84.74

PRIMERS

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Federal Standard Rifle or Pistol Primers - 1M	\$ 10.55

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Lyman 6XSL		\$186.63

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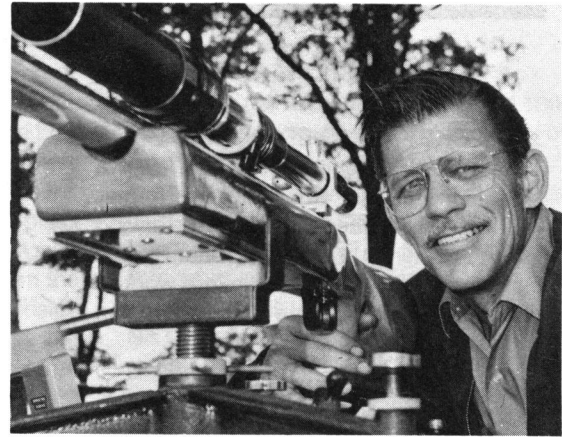
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OLDER AND SLOWER

Lt. Col. Rick Hornbeck
R. D. #2 Box 220
Pine Bush, NY 12566



I don't take stairs at two steps at a time much anymore. I don't hunt the big whitetail deer on the high peaks of the Shawangunk mountain just west of us if I can help it. Seems like everything I do at this point in time takes a little longer. I'm older and slower. It turns out the same kind of deterioration over a period of time takes place with our rifle barrels. They tend to get older and slower too.

Very little information has been published about this factor which effects external ballistics. The Hornady Handbook of Cartridge Reloading brings up the subject and gives an example of a test barrel. This excellent reloading manual is a must for any reloading bench and covers a number of interesting subjects in addition to complete reloading data. After reviewing the Hornady Handbook and the subject of lower velocities as a barrel is used, it came to mind that several barrels currently in use on the bench had valid data recorded after chronographing these barrels when first installed on a rifle. With this valid starting point, further velocity tests were conducted using the same loading data and the graph developed.

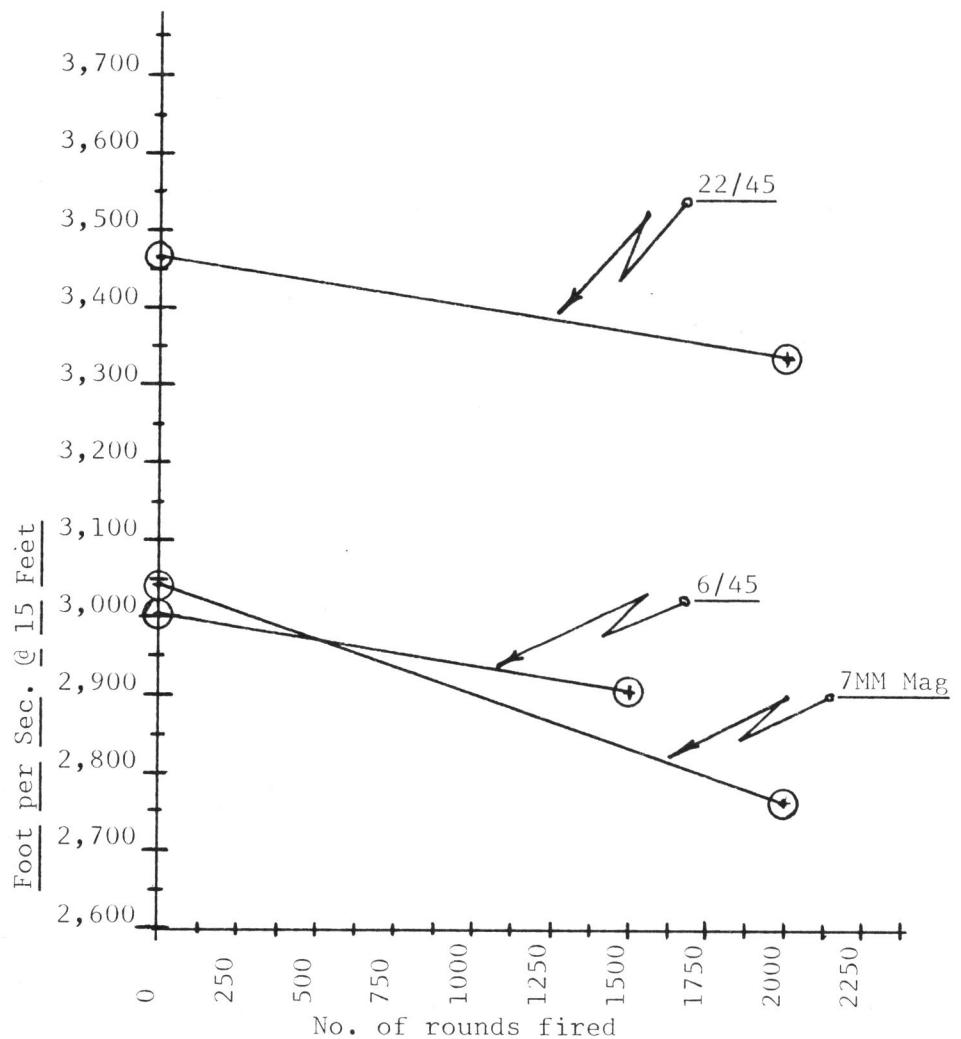
This graph is a very small sampling to be sure, but some interesting trends seem to

be developing. Further chronograph testing will be required for really valid facts. Anyone who has recorded velocities for a relatively new barrel, has recorded loading data for those velocities and the number of rounds for each barrel religiously recorded during the life of a barrel can develop a like graph. The most important factor here is recording the rounds fired. Estimations of the rounds fired will result in erroneous data and graph.

The first plot on the graph is for the example offered in the Hornady Handbook.

This was for a 7MM Magnum. Average velocity for the new barrel was 3,044 fps with the established load. At the end of 2,000 rounds, the velocity dropped to 2,758 fps, a loss of 286 fps. The 7MM Magnum has rather a "big boiler" and the line drops off at a goodly rate. The same kind of velocity loss rate can be expected for any large capacity case.

The second plotted line is for a Hart stainless steel barrel (#C1804) 1-15 twist, 23 inches long, chambered for the 22/45



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(222 Mag. with a 45 degree shoulder) using 27.5 grains of H-322 and a 53 grain hollow point flat base bullet. The average velocity when the barrel was new (under 50 rounds) was 3,461 fps. After 2,000 rounds, the velocity has dropped to 3,344 fps, a loss of 117 fps. This, when compared with the 7 MM Mag., demonstrates that the smaller case capacity slows the velocity loss rate.

The third plotted line is for a Hart stainless steel barrel (#A452) 1-14 twist, 21 inches long, chambered for the 6/45 (6X47 with a 45 degree shoulder) using 27.3 grains of H-322 and a 68 grain hollow point flat base bullet. The average velocity when the barrel was new (under 50 rounds) was 3,005 fps. At the end of 1,500 rounds the velocity has dropped to 2,902 fps, a loss of 103 fps. This plotted line, we note, drops at the same rate as the 22/45 because the amount of powder being burnt is about the same for both cartridges.

The velocity loss is the result of throat erosion. The greater the case capacity and the hotter the load, the higher the pressures and temperature, the more rapid the erosion rate and the greater the velocity loss rate.

You might wonder what these velocity losses have done to rifle performance. If anything, the 22/45 and 6/45 are shooting better now than when new, both in their prime from all indications. The 22/45 will handle three tenths more powder without excessive pressure signs which were experienced with 27.8 grains of H-322 when the barrel was new. No bullet seating changes have been necessary to keep the rifle performing well except for changes in bullet makes and changes in ogives.

Velocity loss rates for the PPC in both .224 and 6MM can be expected to follow the same rate lines as the 22/45 and 6/45 because the case capacities are about the same. A .308 benchrest rifle could probably expect to have a rate loss somewhere between the last two cartridges and the 7 MM due to the case capacity and powder loads normally used.

What can we do to stop barrel erosion? Not a thing. It starts with the first shot fired and continues throughout the life of the

barrel. The greater the case capacity, the more powder per load used, the higher the pressure and the real culprit, the higher the heat levels for longer periods for each shot fired. But there are some things we can do to control erosion.

First, we can hold down our rate of firing and keep the barrel from heating up above mild heating. The reason a heavy benchrest rifle barrel last as long as it does is because we have enough mass that must be heated up to do major damage and heavy barrel takes somewhat more rounds to heat up to damaging levels during our ten shot groups. The shooting of light barrels during warm weather takes only a few shots to heat up. So, rate of fire is a major factor.

Next, we can keep the barrel clean, keeping fouling levels down. Powder fouling and copper fouling when ironed into the barrel steel speed up erosion. A number of rifleman think that bench rest competitors are a bunch of old ladies when it comes to cleaning bores. Maybe, but our barrels shoot quite well for an extended period of time and clean is the name of that tune. I see a lot of fine shooting field rifles at the local gunsmiths that have been all but destroyed from lack of cleaning in a very few rounds. Hopefully, ye'olde gunsmithy gets his hands on it for some proper cleaning in time. Ask any custom barrel maker how many barrels he has returned which will not shoot that have seen little cleaning or improper cleaning.

A lot of space has been given proper to cleaning and cleaning materials in these pages, perhaps more than enough. A short visit with any barrel maker points out that some riflemen are not giving this subject proper attention.

Keep it cool and keep it clean and the erosion factor can be held to a minimum.

Continued on next page

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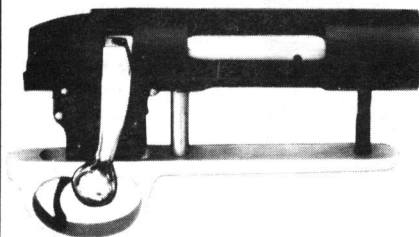
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Gold Medallion Bore Cleaner

Lt. Col. Rick Hornbeck

R. D. #2, Box 220

Pine Bush, NY 12566

United States Products Company of Pittsburgh now offers a new bore cleaner. USP was first introduced to our readers several years ago when we reviewed their lapping products and the sample lapping kit which is still offered for \$5.00, a \$38.00 value. The kit is made up of seven lapping and polishing compounds, all found to be very useful in the shop.

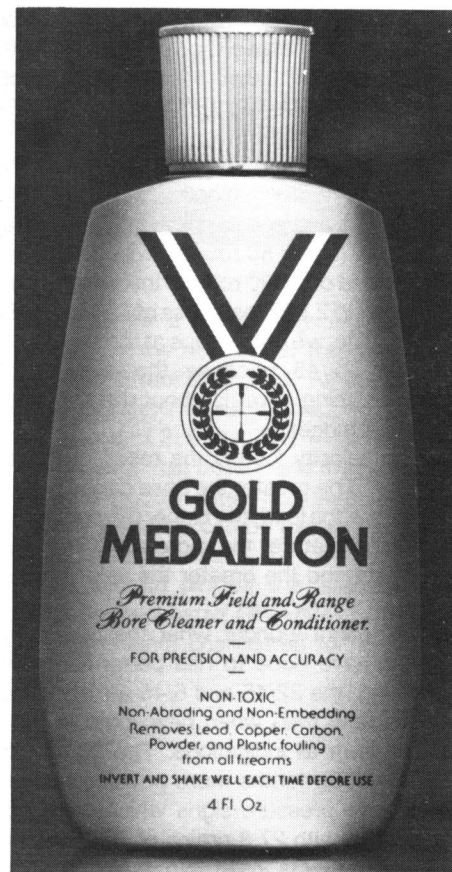
Gold Medallion Premium Field and Range Bore Cleaner and Conditioner is a very fine saponified lubricant and a non-abrading, non-embedding natural earth grain. Most important, it is non-toxic and appears to be water soluble. It is supplied in a 4 oz. plastic bottle.

The earth grain tends to separate from the solution and the bottle should be shaken well before use. Sample bottles were in clear plastic bottles and this separation could be seen. I liked the clear plastic better than the silver colored bottle now used so that the proper amount of shaking can be observed. Bill Monell (Monell Custom Guns) came up with a dandy idea: Drop a small ball bearing in the bottle and this cuts the bottle shaking down to a small amount. Works like a champ.

The bottle has instructions for use printed on the back. I departed somewhat from the printed procedures during use of this product. My first experience with Gold Medallion was tried on a trap gun after an afternoon shoot at the local club. I first removed the major deposit of carbon with Shooters Choice on a tight fitting jag which Shooter Choice does so well. Next, I scrubbed the bore with three tight patches wet down with Gold Medallion followed by several dry patches. The result was a bore clean of all carbon, lead wash and plastic wad smearing. The bore looked like new with the very minimum work and cleaning material. This product should be tried by anyone who finds getting a shotgun barrel really clean a major chore.

Next, I descended on Monell Custom Guns where there is always a selection of customer's barrels that are in need of a good cleaning. Bill selected several in need of a cleaning and I put Gold Medallion to the test. Following the same basic procedures used on the trap gun barrel, followed by a treatment with Shooters Choice, the barrels cleaned up very well with removal of major carbon and copper promptly accomplished and with a minimum of effort.

Bill continued some cleaning tests on really bad cases of barrel fouling. A barrel



that has had less than tender, loving care and is reblued will have a real mess in the bore when the barrel is completed. As a result, Bill always follows with a major cleaning of the bore. Medallion did a bang up job in this department and the barrel was once again looking like a rifle barrel should look.

At Super Shoot and at matches that followed, L. C. Brown, President of USP, offered competitors sample bottles of Gold Medallion. As a result, it has been in use by benchrest competitors during the '85 shooting season. At the IBS Championships, competitors were questioned as to their impressions and opinions of this new bore cleaner. The outcome leads me to believe that Gold Medallion is as controversial as JB bore cleaner was twenty five years ago and since then. Some thought it was fine, others were less than enthusiastic about it. Those that have used JB in the past on a more or less regular bases thought it was just fine. Those reluctant to use JB were not enthusiastic about Gold Medallion. Some of the competitors on both side of the issue were barrel makers, knowledgeable gunsmiths and machinists.

One major barrel maker would not recommend it; while another thought it was fine, if used properly.

As for myself, I have been using Gold Medallion as I have used JB in the past. Gold Medallion is not nearly as messy to use as JB and easy to clean up after use throughout the action, chamber and barrel. After a week-end match the barrel(s) are cleaned with Shooters Choice in the same manner as used between relays. Two or three proper fitting patches are treated with Gold Medallion and used, followed by a brushing with Shooters Choice and the barrel(s) are dried out. To check for any copper fouling, a treatment with Sweet's 7.62 Solvent is often included in the cleaning procedures if copper fouling is suspected to be a problem in a particular barrel. The intent is to store all match barrels in a perfectly clean condition in preparation for the following match, using whatever solutions that are safe for the barrel and effective with a minimum number of passes through each barrel with a cleaning rod. As for the safety of the barrel, Bill Wiseman (McMillan Rifle Barrels) said it all; "It depends on who is using it and how". This applies to any bore cleaner. One of the most important actions during any barrel cleaning and throughout the activity is to keep the cleaning rod CLEAN!

Gold Medallion is \$8.95 per 4 oz. bottle. United States Products Co., 518 Melwood Ave., Pittsburgh, PA 15213-1194. Add \$1.95 for postage and handling.

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BENCHREST SHOOTER OF THE YEAR

Match #8
Painted Post, N.Y.
August 31 - Sept. 1

HEAVY BENCH CLASS

100 meters — Carl Lynn 1 point
200 meters — Jerry Masker 1 point
Grand agg — Jerry Masker 2 points

SPORTER CLASS

100 meters — Ed Hoard 1 point
200 meters — Nate Boop 1 point
Grand agg — Jim Oliver 2 points

HEAVY VARMINT CLASS

100 meters
— Dave Brennan 1 point
200 meters
— Bill Gammon 1 point
Grand agg
— Dave Brennan 2 points

Heavy Varmint — heavy bench
2 gun agg — Bob White - 2 points
Heavy Varmint — sporter
2 gun agg — Bill Gammon - 2 points

STANDINGS TO DATE (5 or more points)

Dick Maretzo	16 points
Nate Boop	14 points
Lester Bruno	12 points
Lowell Frei	12 points
Dennis Wagner	11 points
Jerry Masker	11 points
Don Geraci	8 points
Ed Watson	6 points
Larry Mixon	6 points
L.M. Kirkpatrick	6 points
Glenn Newick	6 points



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BENCHREST SHOOTER OF THE YEAR

Match #9
St. Louis, MO.
Sept. 7-8
(The last match!)

LIGHT VARMINT CLASS

100 meters — Ron Hoehn 1 point
200 meters — Joe Hughes 1 point
Grand agg — Lowell Frei 2 points

HEAVY VARMINT CLASS

100 meters
— Dick Maretzo 1 point
200 meters
— Dick Maretzo 1 point
Grand agg — Dick Maretzo 2 points
Light Varmint — heavy varmint
2 gun agg
— Dick Maretzo — 2 points

FINAL STANDINGS (5 or more points)

1) Dick Maretzo	22 points
2T) Nate Boop	14 points
2T) Lowell Frei	14 points
4) Lester Bruno	12 points
5T) Dennis Wagner	11 points
5T) Jerry Masker	11 points
7) Don Geraci	8 points
8T) Ed Watson	6 points
8T) Larry Mixon	6 points
8T) L.M. Kirkpatrick	6 points
8T) Glenn Newick	6 points
12) Ron Hoehn	5 points

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BOOTS OBERMEYER

(Editor's note: I received this letter many moons ago from Boots Obermeyer, the barrel-maker of Bristol, Wisconsin who was mentioned in Creighton Audette's article in the September issue. The letter rambled around a bit . . . as do many gunsmith's letters . . . and was mildly controversial. Being a new editor, and not wishing controversy, I put the letter aside. Now, with three years behind me, and in that period having been burned in effigy in all of the original 48 states . . . what the heck's a little (more) controversy? Keeps one from becoming complacent, and the constant running down dark alleys . . . one step ahead of a crazed lynch mob . . . keeps the weight down).

Dear Dave,

I have your letter, asking my opinion on whether (in my opinion) the blueing of a chrome-moly barrel has an adverse effect on accuracy or not.

In all honesty, it's not a subject that I have strong opinions on, one way or the other. In the late 1960's, some of the folks for whom I made pressure test barrels told me that they felt that over a period of years they had experienced less barrel life if the barrel

had been blued inside the bore. A pressure barrel's life is determined by its ability to shoot reference ammo within a certain limit of assigned values . . . those values having been established by firing in other barrels. SAAMI conducts these "other barrel" tests for U.S. and Canadian manufacturers. Another factor to consider is that the extreme spread, or means of result, also are used. As the barrel wears, the shot to shot variation will increase until a point is reached where you are not sure how much of the error is ammo, and how much is the barrel (with its increasing wear). The major wear on a pressure barrel is gas leak around the piston hole; usually a notch develops to the rear of that hole, and then gas will vent over the top rear of the case. The second point of wear is familiar to all benchrest shooters . . . we call it throat erosion. Off the subject for a moment, a stainless steel .243 barrel made here has shown more consistent figures over 2000 rounds than a corresponding chrome-moly barrel in .243 caliber with the same usage. Another thing I just got through proving (to myself, anyway), was that when a .22-250 had 2000 rounds through it . . . it just plain is not practical to set it back and re-chamber. Erosion down the barrel will be far enough advanced that the slight extra barrel life that you pick up will not be worth the cost of the operation.

Here's an Obermeyer personal opinion: large bore magnums are probably better off in a chrome-moly barrel than in stainless. This is the opposite of what many others feel. Stainless, as turned out by the U.S. steel mills, is really a marginal material for barrels. I do concede that it is possible to

come up with quite a good finish with it, and it is relatively easy on the shop tools.

So, back to the point that I was making. Test barrels really only hint at accuracy, in terms of variations in velocity, so that one can only use this as part of their speculations. One point I think of as being sort of significant . . . when the U.S. Government orders pressure barrels . . . the specs dictate NO BLUEING ON THE INSIDE BORE.

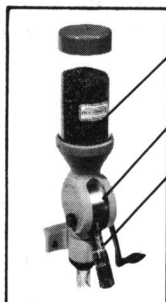
Now, just for the fun of confusing the heck out of everyone, let's go to the other side of the argument. When I was starting this barrel business, in my early years I had to do a lot of general gunsmithing to make (financial) ends meet. And, in blueing barrels, often the customer would come back a week later and excitedly report that the barrel was shooting better than it ever had. Why? Well, my first thought is to suspect that the darn barrel was now clean for the first time in a coon's age. Probably at the time he brought the gun into my shop, the grease, grass, strawweed seed and what not that was all through the gun were what was keeping the worn parts in place. Same with the barrels . . . we just got all the junk out before blueing; that's all. It is also possible that the slight etching of the barrel, by the blueing process acted like a fine lap.

About three years ago, Randy Gregory, of Medford, Wisconsin had a model 70 Winchester target rifle. One of my four groove chrome-moly barrels had been installed by another shooter, and blued at a local gun shop. Randy is a good shooter, one of my team mates, and holds a High Master rating. Randy was moaning and groaning that the barrel just would not shoot, not even at a hundred yards. Finally I had enough, and told him to bring the darn thing in here, and leave it for me to muddle with. I put a 20x scope on it, and brought it down to the local 100 yard range, together with some good reloads. Note that my testing was done in the prone position, with sling. Many match shooters test this way, to gain both practice and data. Perhaps not as exact as shooting from a bench, but the gain in practice is definitely desirable. Also, in my experience some heavy recoil guns, such as the long range magnums do not shoot all that well off a bench. I usually test serious prone at 600 yards. I am also currently an NRA High Master, so my judgement of hold and call is fairly good.

With Hronady 168 grain match bullets I was getting two distinct groups, side by side, looking like an inverted 8. Total spread was over three inches; this is at 100 yards. The gun was better than that . . . the barrel



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was better than that . . . the ammo was better than that . . . and I would like to think that the shooter was better than that. Back to the shop I came, mumbling away to myself.

The gun certainly was not shooting. Maybe the barrel was fouled. I have seen barrels with a streak of fouling that was almost impossible to detect . . . and harder yet to remove. I ran a real fine lap through the bore. After this I checked the crown under my stereo microscope. Whoa! Right there . . . at 6:00 o'clock . . . a spot! Hit it with the lap again, take another look with the microscope . . . now it looks like a pit . . . in the edge of the groove, just a hair behind the muzzle. So I cut off the end of the barrel, section it in half, and take another look at it. Sure as heck, the half inch is pitted. Back to the range. The darn gun shoots much better. I called Jim Tertin at Garder Shooting Supply . . . had he ever seen anything like this? Yup. Sometimes they would blue guns on Friday, and when they were checking the guns on Monday, they would find minor barrel pitting. He felt that the problem was with salt being carried into the final rinse, or the hot oil bath that most use. I also remember that steel would etch with the chromic acid or vinegar in use around blueing shops. Chromic acid is used for hardening the blueing, and the vinegar usually is used to clean up spills.

So my guess is that this model 70, with its flat bottom receiver, and its flat bottom recoil lug, sat with its muzzle down for some time after the blueing, and the solution concentrated at the muzzle. The borescope was not up to showing the fine detail that was very evident using the microscope. Plus the lapping that I had done had changed the surface. So I cut another half inch off the muzzle, and did a general re-work on the barrel fitting. I really tightened it all up, as the headspace was just at max . . . rolled in 180°, deepened it out to get a minimum chamber, and re-drilled the block rolls. Loaded up some more ammo, and went back to the range late in the day. A heck of a difference, several groups were under a half-inch . . . and a long period of testing had all groups under an inch. Again, this was shot prone, with sling.

I have told this story to shops that we sell chrome-moly barrels to. I've been recommending that if a barrel is to be blueed, it should be plugged. Locally we leave the chrome moly barrels in the white, and just keep them oiled or waxed.

Now I'll add this. On Winchester "hammered" barrels, it is common to find pitting at the muzzle . . . inside and outside of match barrels. I never really noted it on sporter barrels, but then you seldom see them with 200 rounds of use. The other day

a club member came in with a Remington 700 varmintier with about 550 rounds through it. It had shot well for a while, and then gone sour. Checked it out . . . guess what . . . pitting at the muzzle. Most match rifles are cleaned regularly, often while they are still hot. If it was "the moist air rushing back after firing" as some claim, we would see it more often, or in the case of neglect, we would see it in other guns of the same shooter. Some of these hammer-formed barrels can have some unusual kinks. A model 70 target came in here that just plain wasn't shooting, period. On checking it showed .004 taper in the bore. With only a couple of dozen lapping strokes it straightened right out . . . that is kind of weird, as usually you have to bust your butt to lap .0001 out. I'm not certain whether I removed finish, or perhaps the process can occasionally leave a small area of not-solidly-attached particles of metal.

I have a South African match barrel in the shop right now, and let me tell you . . . looking at it through a bore scope . . . it looks like no other barrel seen before or since . . . a real funny surface finish.

So much for now, Dave. If you were confused before, I would like to think . . . that I have really muddied the waters.

(Editor . . . to put it mildly . . .)

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MAKING VARMINT AND HUNTING RIFLES SHOOT LIKE BENCH REST RIFLES OR VARMINT AND HUNTING RIFLES THAT SHOOT LIKE BENCH REST GUNS

EPOXY PILLAR BEDDING

By: Howard E. Dietz, Gunsmith
Dietz Gun Shop & Range Inc.
New Braunfels, Texas

Looking at factory type varmint and hunting rifles we find some that shoot extremely well, some shoot good and then some that just barely get by at all. Years ago several manufacturers tried selling rifles with free floating forends. Mostly they shot terrible. The cause being tolerances between the inletting machines and rifle receivers. Consequently all major manufacturers of rifles went back to considerable forend pressure against the barrel. This is absolutely necessary with most machine inletting jobs. This barrel pressure helps settle the actions in the stock in approximately the same place from shot to shot. Actions shifting from shot to shot is the primary cause of erratic and large groups. On the other hand, the problem with barrel pressure is that every time the humidity changes, the forend expands or contracts, again changing point of impact. Even receivers vary to some degree, they may look alike but all have slight differences.

Let's look at some of the problems we want to correct.

- No. 1 - Rifle throws first shot completely out of group.
- No. 2 - Rifle shoots two distinct groups ie (point of impact change between shots.)

No. 3 - Point of impact changes every time we go to the range.

No. 4 - Rifle just plain will not shoot a group.

These are some of the problems we will deal with in this article. My findings have been that a properly bedded rifle will shoot best with the barrel fully floated, no matter how small the diameter of the barrel.

The bedding we are going to describe will work with most bolt action type rifles. Remington being the most popular in this area, but I also bed Rugers, Model 70 Winchesters, Mausers, Springfields, Weatherbys and Shilens. If it will go bang it can be bedded.

The rifle used in this instance is a Remington 700 BDL Varmint caliber 222 Remington. The rifle was fitted with a 24X scope and fired at 100 yards, just as it came out of the box. The average groups measured (.885) before pillar bedding; after bedding with the Epoxy pillar method described above it averaged (.350). All the above groups were fired in much less than ideal Texas conditions which don't ever get good. (Editor: understatement of the year.) This bedding will remain intact for many years of hard shooting. We do suggest rebedding with a thin paint coat if the barrel is replaced, as it is almost impossible to get a Remington Recoil Lug back to the exact same place. I also use this same method of bedding fiberglass hunting stocks, as well as for the Hunter Class Rifle in Bench Rest competition.

MATERIALS NEEDED

- 5/16" Drill
- 1/2" Drill
- 9/16" Drill
- 3/4" Drill
- 1/4" Rotary File
- 3/4" Masking Tape
- Wooden Ice cream sticks
- 1 - 1/4 x 28 x 1 1/2" Allen head cap screw
- 1 - 1/4 x 28 x 2" Allen head cap screw
- 1 - 1/4 x 28 tap
- 1 - Neutral Paste Shoe Wax (Kiwi)
- 1 - Accubed Kit - as sold by H-S Precision
P.O. Box 512 - Prescott AZ, 86302
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This is how I go about bedding a Remington 700 BDL. Remove bolt from rifle, and make sure that it is unloaded. Remove scope and mounts, if you are using two piece bases, like Weaver, you can leave the bases on the action. Remove guard screws and remove barreled action from stock.

Place stock in padded vise and remove pressure point from forend of stock, and lightly float forend. With floor plate removed, proceed to the drill press, clamp stock in padded drill vise, stock upside down, trigger guard hole up. Proceed to drill 1/2" holes, 1/2" deep, centered over action guard screw holes. For this I use discarded metal drills with ends ground flat like end mill cutters; they cut wood just fine using medium speeds and are much cheaper than end mills.

Now turn the stock over so that holes can be drilled from the top side. Place 9/16 drill bit, ground flat on end, into drill press chuck. Drill the rear action screw hole down until it connects the short hole drilled from the bottom. Being careful not to drill thru wood at trigger guard area. This large hole will become the rear epoxy pillar.

Now slide stock back to a point where the 9/16" drill is centered 1" ahead of the recoil lug in the barrel channel. Proceed to drill out a section of stock - 9/16" x 1/2" deep the entire width of barrel channel. This hole is

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best explained as follows: It is an excellent way to stop our bedding compound, also if the forend ever decides to warp, enough wood has been removed here to stop the warp from transferring strain to the recoil bedding area. For lack of a better term we call this hole a DIETZ WARP STOPPER. How we remove the 9/16" drill and replace with a 3/4" bit, again ground flat on end to prevent digging in and ruining stock. Center the drill over front guard screw hole and drill down until we join the 1/2" hole drilled from bottom. Now with drill still centered in channel, proceed to drill a series of 3/4" joining holes 1/4" deep until we have joined the warp stopper hole in forend. This gives us a 3/4" x 2" channel of bedding material 1/4" thick that will not give away in years of shooting. Now using 1/4" rotary file in a hand held electric drill motor or Dremmel tool, enlarge and deepen the recoil lug area to remove all traces of finish and oil soaked wood. Using same rotary file, very carefully cut a small channel for bedding material down both sides of inletting. Then using 80 or 100 grit sand paper remove all traces of original stock finish in the bedding area.

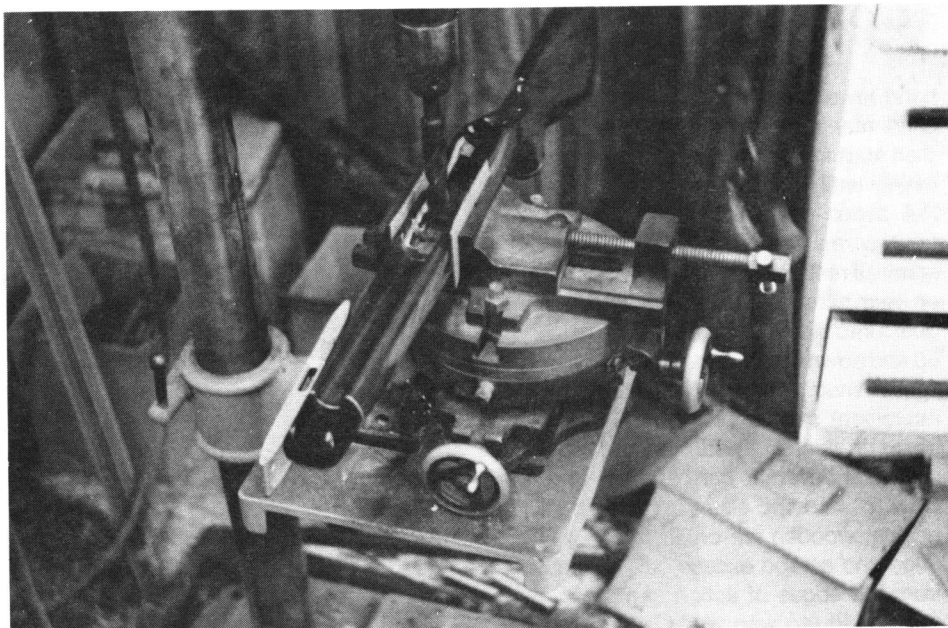
Drop the barreled action back into stock to insure that there aren't any tight or binding areas. The action should have some lateral movement. If all the above steps have been followed, we should now be ready to take a look at the barreled action.

PREPARING BARREL AND ACTION

With barrel in padded vise, remove magazine box, and remove the complete trigger assembly, including bolt stop. Be sure to catch bolt stop spring when driving out trigger pins. Now take 1/4 - 28 tap and turn it thru threaded guard screw holes in action. I have had several Remingtons where the rear hole was not tapped all the way thru. Now try the allen head screws in receiver to be sure they screw in and out freely. I use a 1/4 - 28 x 1 1/2 allen head cap screw for the front guard screw, and a 1/4 - 28 x 2 for the rear screw. Using lathe, drill press or electric drill motor, turn, grind or file countersink bevel to same angle as original screws.

Remove the spring and follower from floor plate assembly. Now take paste shoe wax, I use Kiwi Neutral, believed to be the finest wax in the business, ask any of the older G.I.'s. The release agent furnished may be fine; I have never used it. Wax action completely in and out, plus about 4" of barrel forward of recoil lug. Let wax harden for 10 or 15 minutes, then using soft cloth or handiwipe, buff or polish off excess.

Now apply a second coat or layer of shoe wax to outside area of action and barrel, again bring to high polish. Note - Before starting with bedding compound, double check to insure that all parts contacting



Dietz Bedding - #1

Removing wood from bedding area, with drill bit ground flat on bottom in drill press.

bedding have been adequately waxed - including screws, floor plate and trigger guard assembly.

We are now ready to start mixing the stock bedding compound. I use a product called Accu-Bed sold by H-S Precision. Other products may be used such as Bisonite, also sold by H-S Precision. I prefer Accu-Bed because of its zero shrinkage characteristics. For this pillar bedding method measure exactly 5 1/2 teaspoons of Accu-Bed compound, mixing in exactly 1 teaspoon of Accu-Bed hardener, checking clock, I stir for full five minutes to insure complete mixing.

Accu-Bed has about 30 minutes working time so no need to rush, but put off having a cool one until you're finished.

In applying Accu-Bed to stock, hold the stock by the forend in your padded vise. Place piece of masking tape over holes in stock and proceed to fill pillar holes from bottom, this is easily done by turning stock upside down and using wooden ice cream stick. Poke bedding material into hole until slightly above original wood surface. Now lower waxed floor plate in place, securing with a piece of masking tape. Now turn stock right side up, remove masking tape from bedding area, completely fill pillar holes with bedding material, insert 1/2" allen head screw (waxed) in front trigger guard hole, pushing up slowly, while pushing bedding material down with wooden stick to insure that no air pockets form in the pillar. Secure screw with masking tape.

Now follow same procedure with long allen screw in rear hole. Fill recoil lug area completely, pack bedding material down to avoid air bubbles. Place an even layer of

bedding material on all exposed bedding surfaces. Use up all of your bedding material, you don't want any left over. Remember the excess will squeeze out. Now we're ready to bed the action. Pull stock back far enough in vise to give access to guard screws with allen wrench. With left

Continued on next page

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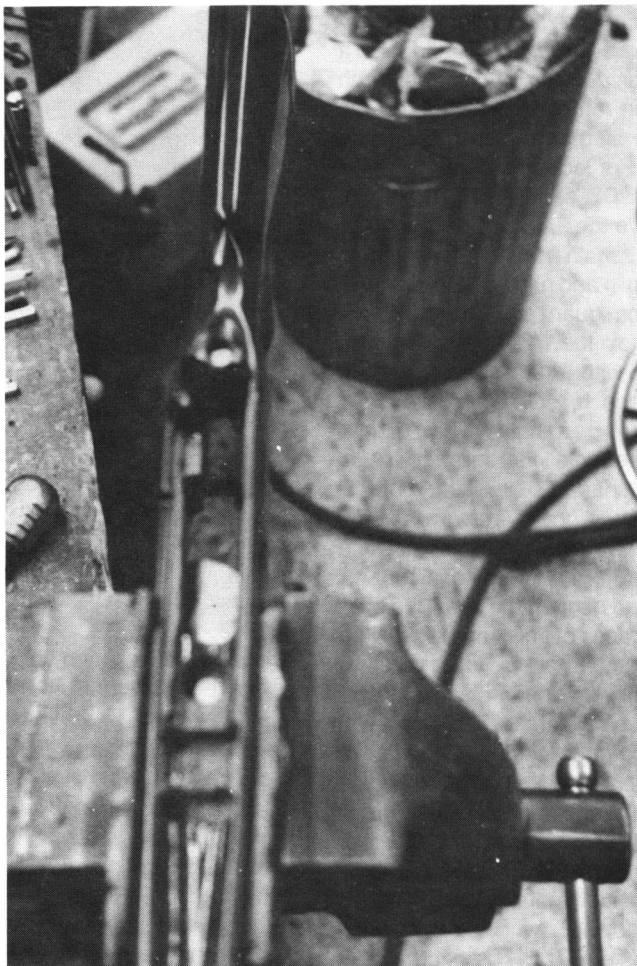
EPOXY PILLAR BEDDING

Continued from page 15

hand lower barreled action onto bedding. Start rear screw first as it is the longest, then start front screw. Tighten both screws evenly until bedding starts to squeeze out. Pull action down to desired depth, using front screw. **DO NOT** put any strain on screw, if resistance is felt **STOP**. Tighten up on rear screw just enough to pull trigger guard into place. Using left hand, rock barrel up and down lightly, if rear tang moves, very lightly snug up on rear screw until no movement can be detected. Don't go too much on this, if in doubt back it off again.

That should take care of bedding action. Now to start the clean up operation. File original wooden ice cream stick to sharp edge and scrape excess bedding material from top edges of action and stock. Now wet an old rag with water, wring out, and wipe bedding material off of stock. All of your outside clean up work can be done before the bedding material sets up. Remove masking tape from quick release floorplate, open floorplate and using wooden stick remove squeezed out bedding compound from in and around magazine box cut out areas. Use damp rag to remove any compound from outside of

Continued on page 18



Dietz Bedding - #2

Showing pillar holes in stock prior to applying bedding compound.

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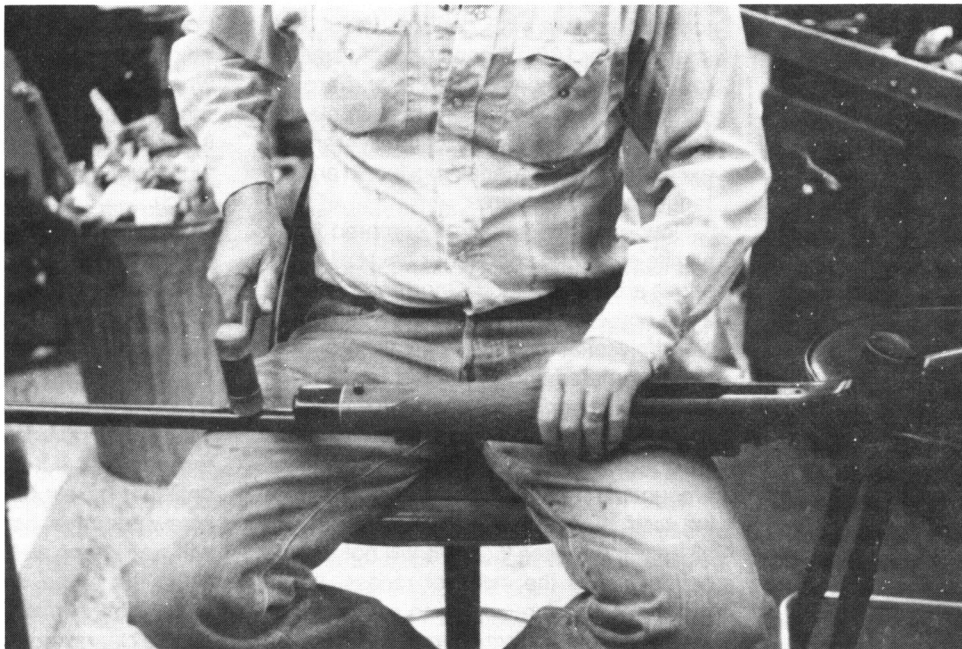
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Dietz Bedding - #3

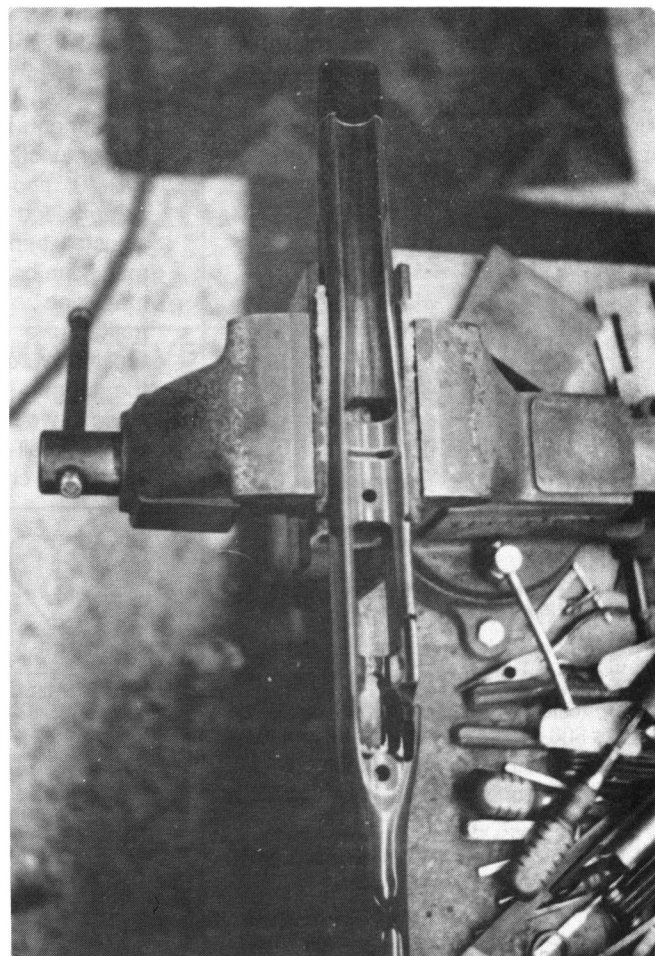
Showing coarse sand paper to remove all existing finish in bedding area so that bedding compound will adhere to the wood.



Dietz Bedding - #4
 Procedure used to remove barreled action from stock after bedding has cured.



Dietz Bedding - #5
 With file or similar scraper ground to knife edge. Bevel all edges around recoil lug and avoid particles from falling under recoil lug.



Dietz Bedding - #6
 The finished product should look clean, smooth and appear to have been done with pride in workmanship.

EPOXY PILLAR BEDDING

Continued from page 16

stock. Now place complete job in a cradle such as Decker rifle vise, resting only forend and butt stock. Let epoxy cure for 24 hours at the least, preferably 48 hours. Don't get in a hurry now, save a sample of your bedding compound which was squeezed out to check to see if it is hardening O.K., it should be set up after 4 hours at 80 degrees or higher.

To remove barreled action from stock, use the following procedure: Loosen and remove allen head guard screws. Now you will appreciate why I use allen head screws, they will be tight. This situation can be helped a little if you break or loosen screws 8 to 12 hours after bedding material was put in stock. Now sitting in a chair with stock held in lap upside down, tap trigger guard lightly from side to side with plastic hammer until floorplate can be removed. After removing trigger guard and floorplate, grasp stock with left hand, still with stock upside down, tap barrel smartly in front of forend with plastic mallet or hard rubber hammer until barrel and action falls out of stock onto your legs.

Place stock in padded vise, use hand electric drill and drill out guard screw holes with 5/16" drill. Chamfer drilled out holes

top and bottom with deburring tool. Use coarse file or 100 grit sand paper to smooth top edges of bedding, also in and around magazine box. Use rotary rasp in electric drill or moto tool and carefully remove excess bedding material from in and around trigger and safety area.

Now grind a small three cornered file to a knife edge and chamfer or bevel all sharp edges around recoil lug. Grind another small three cornered file to resemble a very small wood chisel and scrape a small amount of bedding material from bottom of recoil lug area. Drill or grind excess bedding out of warp hole in forend. On Remington rifles which have ample recoil lugs, I file a small amount of metal off the bottom of the recoil lug itself. With fine cut file bevel and smooth all edges on recoil lug so it will not scrape bedding from the sides of recess, which might get under recoil lug to cause a high spot. Remember action must always be able to go down and back. We want only one recoil contact point and that is the **recoil lug and no more.**

Use 4/0 or very fine steel wool to clean up barrel and action. Now drop receiver into stock and float barrel so that a business card can be slipped the length of forend freely. Turn stock over, scrape and sand any excess bedding from around floorplate until it will slip in and out readily.

Reinstall trigger on action, make any adjustments if necessary at this time, check trigger function. Wash out trigger, lube with WD-40, and blow out any excess with compressed air.

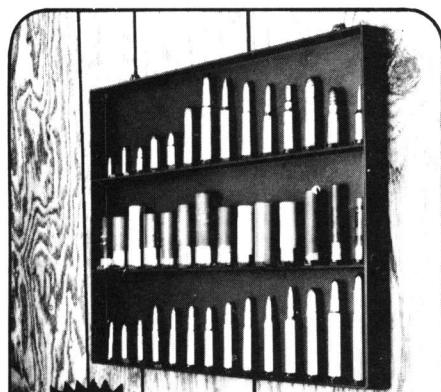
Install barreled action into stock, with magazine box in place. Visually check that magazine box is not binding in recess, also make sure trigger and safety are not touching wood anywhere. On Remingtons, the trigger adjusting screws come very close to wood on the front side, relieve this with a small round rasp. Lower floor plate into stock, check to see if magazine box is

bottoming out to floor plate, file magazine box off to allow at least 1/16" clearance when tightened. Also check and make sure trigger is not touching trigger guard cut out, if it looks even close, remove some of the aluminum guard so that the trigger cannot touch.

Drop in original guard screws, or many replace original screws with socket head screws as sold by B-Square Co., Ft. Worth, Tx. By drop in, I mean screws should literally drop into stock, no binding whatsoever. Tighten front guard screw, check by looking into receiver with flash light to insure that guard screw is not protruding thru receiver, if it does, grind or file it back until **just barely below the surface.** If this screw **touches bolt locking lug,** the rifle **will not shoot well.**

Do the same with rear guard screws. Install bolt in rifle, check to see that bolt handle clears and does not touch any wood in the closed position. You should be able to slip a piece of paper under bolt handle. **Again** rifle will not shoot good if bolt handle is touching any part of stock. Check operation of complete rifle at this time. Dry fire several times, be sure safety works safely and does not touch any wood or bedding, same with bolt stop and bolt release. If everything clears and works satisfactorily, remove barreled action from stock and seal forend and all other areas with true oil or stock sealer. Wipe off any sealer that gets on the bedding.

While waiting for stock sealer to harden, I check barrel and barrel crown with magnifying glass. If I have the slightest doubt about the crown, I place barrel in vise with muzzle up, take a round headed brass screw, chucked in a variable speed electric drill, and with fine valve grinding compound lap crown by rolling and rocking drill motor back and forth. It doesn't take much to remove any burrs at the muzzle and it most definitely will not hurt it. The barrel, I give



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a good scrubbing with Hoppe's #9 and good tight fitting bronze bristle brush. If any fouling persists and can be seen from the muzzle such as copper wash, I give it a good cleaning with J-B Bore cleaner on a tight fitting patch. Then again clean with Hoppes and dry. Reassemble rifle carefully being sure no foreign material has gotten into recoil lug area in stock by blowing out with compressed air. Tighten guard screws evenly, they need not be torqued down real hard. Just common sense tight.

With butt stock of rifle resting on your hip, barrel pointed straight up, grasp forend at the very end, with thumb and forefinger lightly touching barrel, loosen and tighten front guard screw and feel for any movement between barrel and stock. Retighten front guard screw, slide hand down to rear tang and loosen and tighten rear guard screw and check for any movement between tang and stock.

If any significant movement is felt go back and check magazine box again to be sure trigger guard is not putting action into a bind. Remove barreled action from stock to check if any foreign material had gotten under recoil lug or any other part of action. If on reassembly this movement persists, it means you had one or both guard screws too tight during the bedding operation, causing the action to bind. In which case, sand down the bedding to remove any glaze

or wax, open up recoil lug recess again to allow ample room for bedding material to squeeze out. Rewaxing action again as we did for first bedding, this time using H-S Bisonite compound because it is much thinner or runnier. Since our Epoxy pillars are already in place, I use 1/4 x 28 head-less guide screws in action, holding floorplate in place with masking tape, place a small piece of foam rubber in barrel channel. The foam rubber under barrel will help prevent any barrel strain on action during this rebedding operation. Now lower action with guide screws down onto the Bisonite compound, pushing down with hand pressure until epoxy starts to squeeze out. When nearly to desired depth, use wooden stick to scrape away excess bedding. Now secure action to stock with light wraps of surgical tubing or if you are doing this for a profession such as I, use a 4" C-Clamp with a piece of angle iron welded to clamp, which will fit very nicely over Weaver Bases. Let cure and follow same procedure.

When putting scope back on the rifle make sure bases and rings are tight. Those of you that insist on using one piece scope bases, aren't quite ready to go yet. You need to check the base by loosening first the rear screw and checking for base movement, if it raises up at all or has any spring, mix up some epoxy bedding material and bed the rear base portion with rear

screw waxed but loose. This way screw maybe tightened after bedding compound hardens (24 hours). If no movement is noticeable, tighten rear screw and loosen both front screws and check here for movement.

If any movement is noticeable bed the front portion. If everything checks out, mount your scope and you are ready to go to the range. After firing 8 or 10 shots check guard screws for tightness in case action has settled a little.

Here are some tips to remember when bedding rifles other than round bottom section. Any rifle that has three screws, such as Remington ADL - Ruger 77 or Winchester Model 70, Center screw must be left loose, this screw's function is to **hold up the trigger guard and that is all**. On flat bottom actions like the Mauser or Model 70 or Springfield, bed only the front receiver ring and rear tang. These receivers have too many corners and projections to ever hope at getting a good job the entire length of the action. On Ruger Model 77 Rifles I recommend bedding them in 2 operations. First bed trigger guard and floor plate, using 1/2" deep starter pillars, makes it much easier because of the angled front guard screw. Also on the Ruger bed only front receiver ring and rear tang.

Good Luck and Good Shooting.

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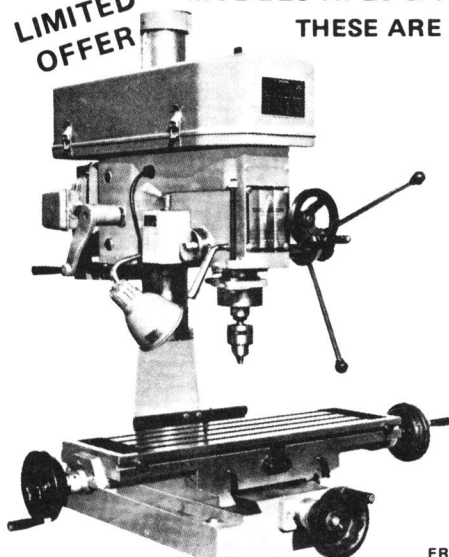
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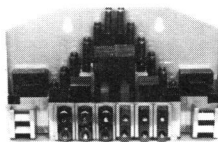
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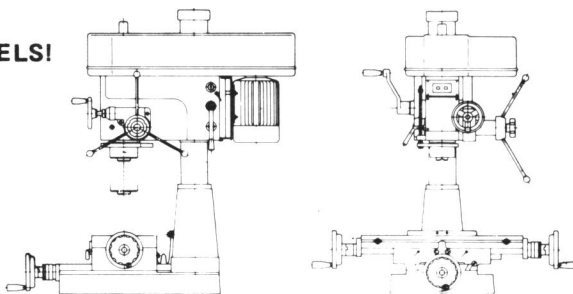


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Right and left stroke of table	14-1/2"	15-3/4"
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LOSE A RANGE FIND A RANGE

By Tony Hidalgo

Bob Pease Introduction:

Uprooting and leaving one's part of the country is always a major career and family decision. So many problems and details to circumvent. Lost in the shuffle entirely is any thought as to where one might resume their favorite hobbies once settled in at the new location. Such were the circumstances in 1983 when Tony Hidalgo, the 1979 IBS Hunter Class National Champion, and League Coordinator of the Transcontinental Hunter Rifle League undertook such a move.

Early retirement, too many years working two jobs to say nothing of helping honcho the Englishtown Benchrest Club and TCL for a decade had taken their toll with by-passes and major surgery threatened unless his activity was reduced. This caused Tony and family to migrate to Florida and locate just north of Miami in a town called Davie, FL. At this point Tony continues

Busily engaged in establishing a new home in a totally new part of the country, I had merely glanced around the countryside and decided that my sport of shooting was lost forever - not a sign of any place to put a range let alone any semblance of one. Thoughts of creating interest and building a range were almost totally rejected and I was just about resigned to taking up golf and fishing - when a chance conversation led to finding an UNBELIEVEABLE range right in my own backyard.

Markham Park Regional Target Range, a county owned recreational facility, was only a few minutes drive. My visit uncovered facilities the like of which I had never seen in the New Jersey area and rivalling some of the best shooting facilities in the country.

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First let me orient the range location for you - Markham Park is in Sunrise, Florida, 15 miles from the northside of Miami proper. It is 10 miles from Ft. Lauderdale and just 10 miles from Hollywood. There are 66 covered firing points for rifle out to 100 meters and another 44 firing points for pistol to 50 meters thus providing more than ample roofed over area for expansion and loading. A proposed 300 meter range this next year will provide for at least 40 covered firing points. The 100 meter range is currently lighted for night shooting and it is planned that the 300 meter range will be similarly equipped. That number of pistol firing points would convert to space for approximately 1/2 as many benchrest positions. This could provide space for up to 25 benches at 100 meters and 20 benches at 200 meters if the benches were of a movable type.

The firing points are all on concrete slab with movable tubular steel type wood top benches currently being employed.

There are camping facilities for both tents and trailers with 80 spaces and a shower building adjacent with hot and cold running water. In short the complete potential for holding shooting matches readily exists lacking only adequate benches. Conversation with range officials indicated definite interest in providing at least 20 permanent benches at both range distances IF sufficient interest in this type of shooting can be shown.

A large club house and administration building also provides many additional

facilities. In the proposed expansion for 1986 will be a lake to provide swimming with additional tent camping spaces on a island in it. In short it appears that tremendous facilities are here for the creation of a benchrest club and it would be my intent to start with interest in the Hunter Class, one that I have participated in the most and one requiring a minimal outlay for equipment. Operation costs would be less to start with the Hunter Class as well as lower initial investment for the shooter. Some informal matches waiving caliber and scope requirements could be used as a starting point gradually swinging toward recognizable Hunter Class under either NBRSA or IBS rules. Interest in such a club can be further whetted by participation in the Transcontinental Hunter Rifle League as soon as possible.

I would be more than willing to help coordinate these efforts and ask that any interested shooters in the general Miami, Ft. Lauderdale, Florida area contact me for further information. Here is an excellent chance to create a working benchrest shooting group with an absolute minimal outlay of time, money and effort.

The facility is here, effort and work requirements minimal and expenses not a problem. All I need is to find serious rifle shooters. Write or call me!

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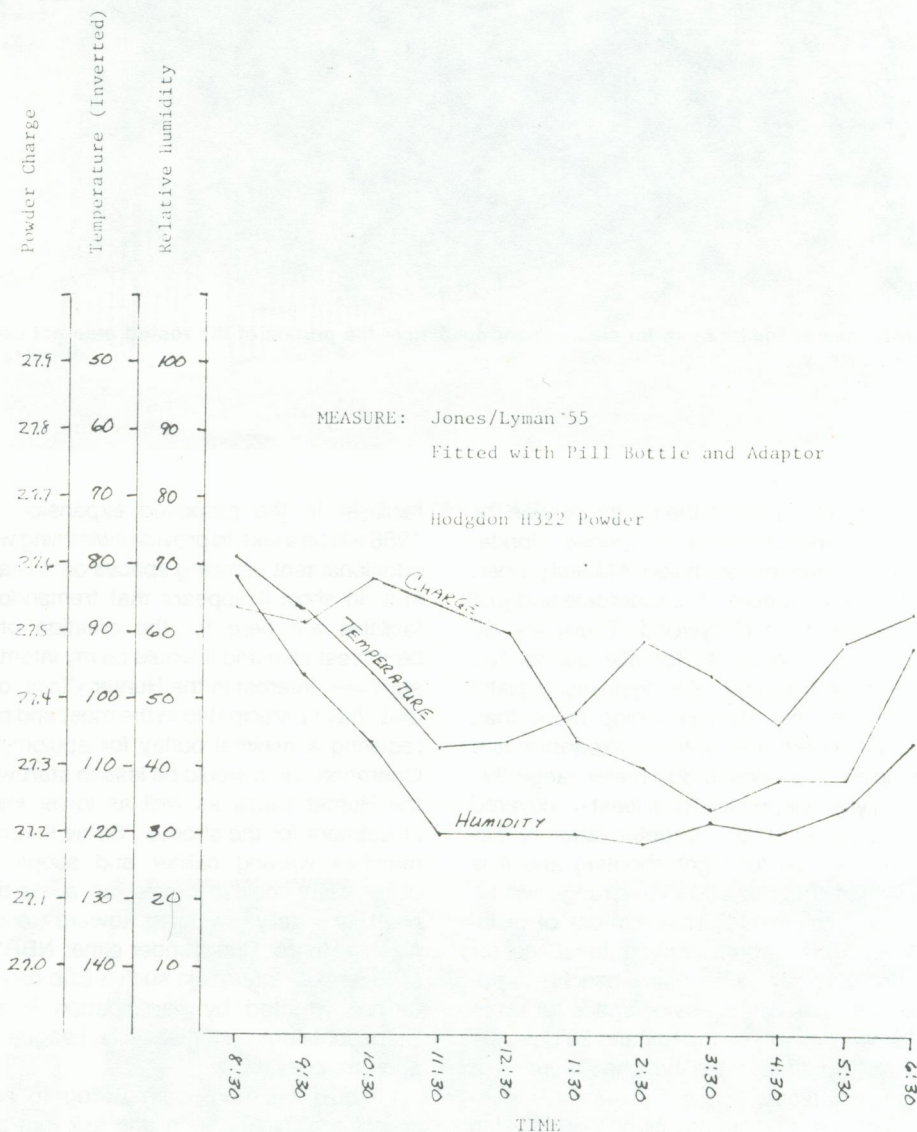
JON LEU

Dear Seely

By the time that you get this letter, you should have the graphs that I sent along with my last letter . . . graphs dealing with the effect of temperature and humidity on thrown charges of H322 and H4895. This sort of lines up with the Good Editor's request/directive that Mr. Leu is to deal with practical matters, and stay off the philosophy for a while . . . until a few offended souls out in Hooterville Junction forget what it was that I said that they're mad at. Whatever it was . . . I certainly didn't mean to offend anyone . . . honest! Just wanted to say that once . . . for the record. Philosophers don't want to annoy people . . . philosophers merely want to get people to think. They may be right . . . they may be wrong . . . but until people think a bit about the problem . . . we'll never know who is right . . . and who is wrong . . . will we? Sometimes we don't even know what is right . . . and what is wrong . . . after we've thought about the matter. But I still think that the worst thing we can do . . . is not to think about things that have two possible sides to them. Galileo, in the middle ages, came up with the discovery that the earth revolved about the sun . . . a belief quite contrary to the church and state backed belief of the day . . . that the sun revolved around the earth. Galileo was dragged into a star-chamber session . . . and given his choice of recanting his heresy . . . or burning at the stake. Galileo, being a basically intelligent sort of a fellow, did admit that perhaps he had made an error . . . but as he was led to the door . . . to be thrown out said door . . . he mumbled in his beard . . . "it still turns".

I had a letter within the past day or three from a friend in Illinois who is now experimenting with the use of H4895 in his 6MM PPC. According to what he wrote, he is putting 30.4 grains of the damn stuff in the PPC case. I've yet to figure out how he gets so much powder in the case, but he

tells me that he does it . . . and without any difficulty or the need to mount his measure on top of a nearby windmill to accomodate a 42-foot drop-tube. I don't want to sound like a doubting Thomas, but I'll be more prone to believe it when I see it. On second thought, maybe he's breech loading his



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bullets. Anything is possible in the historically circular path of benchrest shooting!

Along these same lines, I had a letter recently from Dick Katchmar of Decatur, Illinois, regarding the use of both H322 and H4895 in the 6MM PPC. Along with being a record-class benchrest shooter, Dick is a METICULOUS keeper of records. Boiled down to a nit, Dick's "theory" is that H4895 IS a good powder for the PPC, but you can't get enough of it in the case. He is now

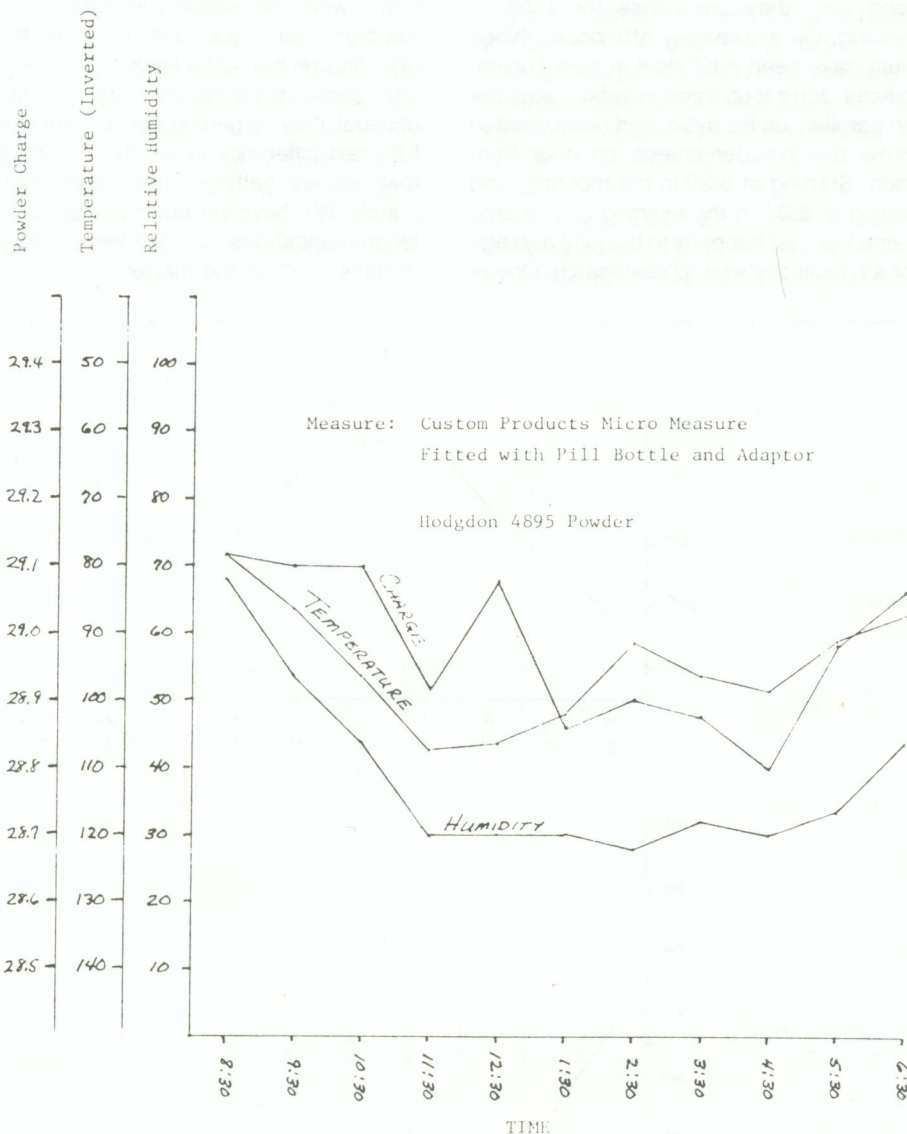
shooting — and set his world record with — H322 in the PPC . . . and calls it a "cantankerous" but smooth metering powder — a powder that seems to be THE choice of all of his rifles. Dick, like so many other H322 shooters I've talked to, traces the "cantankerous" nature of the powder to (1) lot-to-lot variations and (2) the weight-to-volume variations caused by differences in temperature and/or humidity.

Dick uses a method to "circumvent"

these problems a bit different than most of the shooters I've dealt with. He does all of his shooting over a set of chronograph screens (his PRACTICE shooting, that is!) and keeps a very careful set of notes on (1) temperature and (2) average velocity. Once he has his rifles shooting well at a certain velocity, he will make minor alterations in his powder charge to MAINTAIN that velocity. The end result of all this testing has been the development of a table of H322 measure settings for a range of temperatures. When Dick goes to a match, he lays his thermometer out with the rest of his loading gear, and then adjusts his powder measure according to the temperature shown. His method does seem to work — at least for him.

Since "charting" the results of my little experiment with the powder measures using both H322 and H4895, I've given a lot of thought to trying to figure out just what the devil is going on. Being a slower burning powder used in larger quantities, small variations with H4895 would naturally have slightly less effect — percentagewise — than a similar variation with H322. But those percentages are small, indeed! I've begun to wonder if we aren't getting a "dual-pronged" attack giving H322 the "cantankerous" moniker. If the material I've read is correct, the burning rate of powder is determined by (1) the physical nature of the powder itself and (2) by the pressures developed in the applied use of that powder. That is, higher pressures tend to increase the effective burning rate of a powder. If, as it appears, increasing temperatures and decreasing humidity lowers the amount of powder coming from the measure by weight, you would expect velocity and pressure to drop. As the pressure drops, the effective burning rate of the powder would be slowed down, further decreasing the velocity and pressure. At least that is my "theory of the moment."

Continued on next page



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JON LEU

Continued from page 23

Since there are so many variables (I have no means of altering temperature and humidity independently), it would be a hard thing to test; but I would sure love to give it a try. On the other hand, it might be simpler to wrap each granule of H322 with an insulated, waterproof barrier!

If and when I get to go back to my shooting, I'll have to give the N201 a try. From the sounds of your letter, it might be the crutch I've been looking for . . . a powder charge that doesn't have to be "tinkered" with unless you change lots of powder. For those who are decidedly prone to encounter problems in any attempt to walk and chew gum at the same time (and I would have to include myself near the top of that category), it sounds like a blessing. The only complaint I've heard about N201 from shooters in this area is finding the darn stuff. When the time is right, I'll call upon you for a good source of Norma powder. It WOULD be nice to get into the "winners' column" for a change in that I have spent several years providing the grist for Dave's little "to be made light of" mill. In that Dave remains the one and only member of the

"Jon Leu Fan Club," I'll not complain with any degree of real conviction. On the flip side of that coin, it WOULD be nice if he would pay his dues. (Editor: didn't you get the check? I mailed it myself.)

Best quit pestering you with my ramblings. Thanks again for your help with the powder question(s). Take care . . . and good shooting!

Jon Leu

Editor's note: The charts are not enough to knock one off one's chair. On the other hand . . . they are cause for a bit of thinking. On a Saturday afternoon, things must have been a bit slow in New Haven, Indiana. Jon set up three powder measures "in parallel" on his patio, and proceeded to throw one powder charge an hour from each. Starting at 8:30 in the morning, and ending at 6:30 in the evening . . . a time frame that just happens to be quite average for a typical day's benchrest match. One of

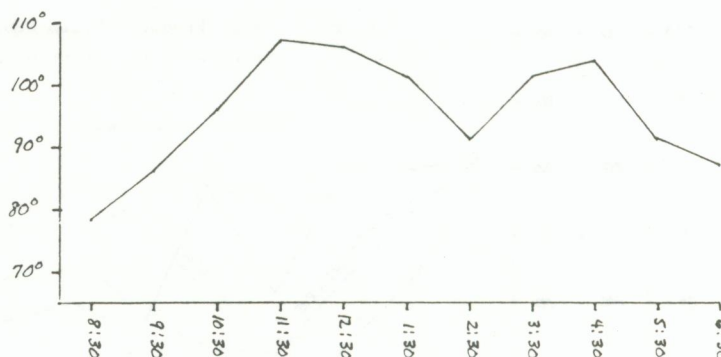
the measures was set up with H4895, while the other two were charged with H322. All three of them, over the course of the ten hour span, showed a tendency to vary somewhere in the vicinity of .35-.40 of a grain. And all three of them showed such similar tendencies over the period of the test as to make it pretty easy to reach some obvious conclusions from the data assembled. Namely that the load that we start off our day at the match throwing . . . ain't the load that we are throwing at 3:30-4:30 p.m., with the same measure setting! Another table suggests strongly that those of us firing in the winter leagues, where zero and below temperatures are not at all unusual, may be getting somewhere near a full grain difference in our thrown charges than we are getting a hot, sticky August match! We have no conclusions . . . no recommendations . . . we leave it to you to think a bit on the matter.

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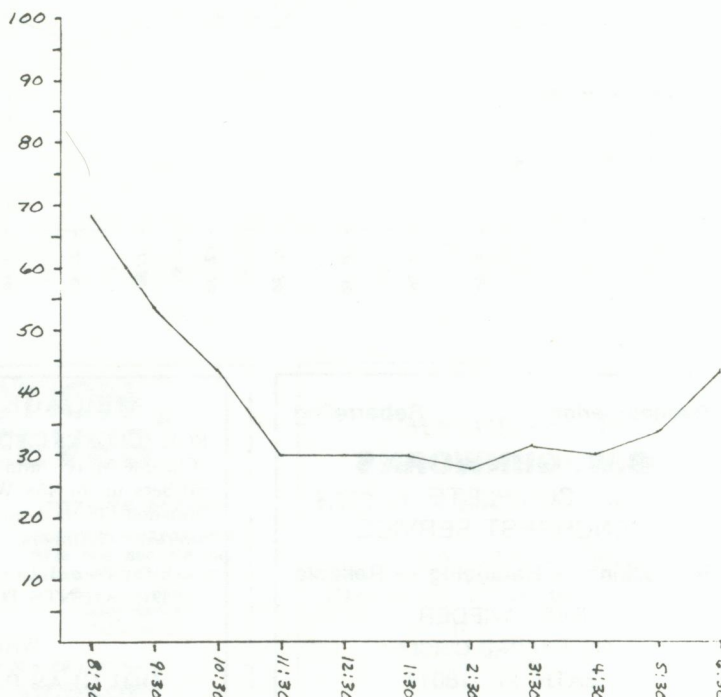
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THE BOYS RIFLE

by
Floyd R. Butler

(in an interview with Charlie Fountaine)
in 1982

Editor's introduction: Floyd Butler, the great aging gunsmith of Poultney, Vermont now lives in quiet retirement in his rural home. The lathes spin no more, and the once busy shop is now still and silent. But, in his day and his day spanned decades Floyd Butler was a heck of a gunsmith. Floyd Butler was Major Ned Robert's gunsmith, and coming forward to more recent days, the widely respected contemporary period gun-writer and authority Ken Waters has several Floyd Butler built rifles that he will not part with. Charlie Fountaine, a driving force behind the Dunhams Bay Club, and a friend of Floyd Butler, shared this bit of nostalgia with me recently. Although not concerned with benchrest shooting it has a warmth and charisma to it that I could not ignore. Pull up a chair to the fireplace take your shoes off and enjoy some memories of days that are no more.

It was a great day for me when Bill came to live with us, my father having hired him for a year to work on our farm. Money was scarce in 1912 and Bill hired out for the large sum of twenty-five dollars a month.

I was fifteen years old at the time, attending the academy in the nearby town, helping with the chores night and morning, and practicing with the violin for an hour each day concertos and arias to acquire a dexterity that has helped me over the rough places many times since.

Bill was about six years my senior, and had been a devoted member of the clan of "gun bug" as far back as he could remember. To listen to him telling about the guns that he had owned sounded like fairy tales to me the proud possessor of an old Hopkins and Allen .32 caliber single shot rifle and a model 1842 Springfield musket, that had been made into a shotgun.

Bill, unlike myself, never kept the guns that he had grown tired of, which was the reason that he could own such a large variety, keeping only one or two at a time; buying, selling, and trading was his hobby. He would spend an evening pouring over the various "swap ads" in the back of various hunting magazines that were sold locally. We would argue by the hour over the merits of some new model that we had read about, but never seen or handled. Bill would end up by vowing that he would have one some day, but that day seemed remote to me since he liked good clothes nearly as much as fine guns, and having also early

also acquired a taste for alcohol, a taste, by the way, of which he was very much ashamed, and which had such a hold on him as to be the cause of his death during the early 40's. His monthly twenty-five dollars melted like snow in June.

It was March when he started working for my father, and by the time that he received his first pay, toward the end of May, he had built up a small surplus that was burning a hole in his pocket. One evening, while milking, he suggested that if I would drive him to town, he knew of a couple of guns that were for sale, cheap, that he wanted to buy. I, of course, jumped at the chance, and after finishing the chores, and changing our clothes, he drew the buggy out of the harness shed, while I put the light harness on Old Pat, our combination farm and road horse, a process that made the old fellow quite angry, and small wonder, as he hadn't finished his hay, and had spent a hard day cultivating corn. He managed to get a good nip at my shoulder, after several attempts, which deposited a good deal of slobber on different parts of my clothes.

Those five miles to town seemed never to end. Old Pat, thoroughly disgusted with the whole procedure, would hardly go faster than a walk, and it was growing dark when we finally drew up in front of a neat little house.

I hitched the horse to a tree, and followed Bill in, where I was introduced to an old gentleman, well over the eighty mark. When he learned that Bill had come to buy his guns, he became very sober, and I knew that he didn't want to let them go. After I had looked them over, however, I didn't wonder that he was loathe to part with such perfect examples of the gunmaker's art.

The first one to be brought out was an English fourteen gauge percussion double shotgun of medium weight, with beautiful twist barrels, elaborate engraving, and a stock of French walnut. He told us, as he fondly handled it, that the barrels were bored with a special choke that made it sure death to birds that were out of range of an ordinary gun.

His other gun we took at first sight to be a small muzzle-loading rifle. After we had spent a few minutes looking it over, and observing the engraving, the extraordinary figure of the stock, and the large size of the bore which appeared smooth, he explained that it was a boy's rifle, and having acquired it in a trade years before, he found that the bore, which was a .32 caliber, had been

neglected, and badly rusted, and that he had foolishly listened to the advice given by a local gunsmith to the effect that by boring it out, it could be made into a nice 28 gauge shotgun. The old man remarked that he had wished many times since that the gunsmith had re-cut the rifling instead, since as a shotgun it was of little use.

Bill finally got up the courage to ask him what price he had on the double shotgun. After thinking it over for a few minutes, he said that he wouldn't take less than ten dollars, and that if Bill did buy it, he would have to promise to give it good care. Bill replied that if he did buy it, he would give it the best of care, but he only had eight dollars, and couldn't pay more than that. The old man was adamant, so Bill inquired about the other one. Five dollars was the price, but Bill kept talking about how hard the times were, until the old man said that if he wanted it, for three dollars and a half, he could have it.

The deal was made in short order, and we started for home, after depositing the gun beneath the seat. I have thought a good many times about how relieved the old man must have been that Bill did not have the money to take up his offer for his pet shotgun.

We found, after leaving the street lights, that the sky had clouded over, and it was darker than a stack of black cats. We, of course, being nothing but a pair of dumb-buds could not have thought of anything as unimportant as a lantern on leaving home. So we were obliged to let Old Pat take us home as best he could. Did we have to urge him to go faster? We did not all we could do was to hold on with both hands, and hope that he wouldn't take us into the ditch or over the end of the sluice. He evidently had his mind on the rack of hay in his stall, and decided to get there just as soon as possible.

On arriving home with whole skins, we proceeded to light a lamp and look the gun over more closely. We found "E. N. Riley" stamped on the lockplate, and "London" stamped on the twist steel barrel which was twenty-four inches long, including the patent breech. We measured the dimensions of the beautifully figured stock which was thirteen inches long, with a drop of two inches, while the drop at the comb was an inch and a half. We found, on taking the barrel from the stock that it had three English proof marks on the underside, along with the initials "E.N.R." and the serial

number 14014. Bill also pointed out the single set trigger, which interested me, never having seen one before.

The next morning we loaded it up with a light load of powder, and some #8 shot. It did fairly good execution on English sparrows, but that was about its limit. If we put in anything resembling a load, that little gun weighing a trifle over four pounds would kick like a mule, all on the cheekbone of the shooter, due to the straight stock, which discouraged both Bill and myself.

About this time I bought my first Francis Bannermann catalog. Bill and I looked through it for hours at a time, he deciding first to get a .32 rimfire tip-up Smith and Wesson revolver, then a Colt .44 cap and ball, finally a Remington of the same style. They were all priced about the same . . . six dollars if my memory serves me correctly. I would have bought the Colt myself if my grandfather had told me that he used a Colt revolver and a Spencer carbine while in the First Vermont Calvary during the Civil War. But six dollars seemed like a lot of money just then, and my music lessons were costing my father quite a bit, so I didn't like to ask him for the money . . . although I had every reason to believe that he would have given it to me, for I had one of the kindest and most indulgent of fathers.

The result of Bill's procrastination was that he didn't get a revolver at all, but rather purchased a .22 Hunter's Pet with a twelve inch barrel.

Bill was a rolling stone, however, and after working out his time on our farm, he left, and worked one summer for a neighbor.

During the fall he decided to go to Utah to visit his uncle. One day shortly before his departure, he asked me if I wanted to buy "the little muzzle loader" as he called it. So I had a short conference with my father, which resulted in three dollars and a half being placed in my hand. The deal was speedily consummated, and the gun was mine.

It has hung on my wall ever since, to be taken down and admired from time to time by my gun-bug friends and others who come to look over my collection . . . but very seldom for shooting purposes, as its kick was something to be reckoned with. My friend, Ned H. Roberts, made the remark during one of his visits that I should have it relined, then it would be worth something to use, as it wasn't worth much in its present condition. I found, after making several inquiries, that the relining of a muzzle loader was rather expensive business, so I gave it up.

Recently, while cleaning up, I ran across a twenty-six inch .32 rimfire round barrel that I had taken from an old Stevens Favorite, intending to replace it sometime with

a new barrel in .25 rimfire. On cleaning out the old barrel, I found to my surprise that the bore was in exceptionally good condition. Being of an experimenting turn of mind, I decided to try making a lining tube from the old barrel to fit the bore of the boy's rifle . . . having found that the rifling was cut with a slow twist, one turn in twenty-six inches.

I had a piece of tool steel welded to a rod to use for a "long bit", as the old-time gunmakers called it, which was ground down to slip into the bore and was honed and was perfectly smooth. I then chucked the old Stevens barrel in the lathe, and cut off the breech, thereby removing the chamber. I then made a light sixty degree cut in each end to fit the centers.

A lathe dog was used to turn the barrel, which was supported in the middle by the rest center. My cuts were taken, and as the barrel warmed up, and lengthened, the dead center was backed off slightly, as I didn't want to spring the barrel. After turning to the proper size it was smoothed, filed and polished and then pinned.

Tinning the inside of the muzzle loader barrel presented another problem as heating would have loosened the ramrod rib and thimbles. I overcame this by the use of several small clamps to hold the parts in place. For heat I used a blow torch and hung the barrel on wires over three burners of an oil stove. When warm, I swabbed the inside of the barrel with a rag covered with soldering paste, then after it had become hot enough to flow solder I used a new brass brush soaked in 50-50 solder and tinned the inside. I then warmed the liner tube and slipped it into the barrel as far down as the screw plug in the patent breech. Previous to the tinning process I had cut off the breech end of the liner tube perfectly square, and after sweating in place, the end of the tube was cut off flush with the end of the barrel and the sharp edge rounded off very carefully, to prevent cutting the patch when starting the ball.

Next I made a few simple loading tools. A charge cup that screwed to the ramrod tip, a small rubber-faced mallet for use in starting the ball, and patch cutting. I had a gang-mold that cast eight round balls that I thought would fit the bore of the .32 rimfire barrel, but I was disappointed to find that they were a trifle large, even when using very thin patching material. I had several other round ball molds of about .32 caliber, but after trying them one by one, the balls cast in each proved too large.

A few days later I told my troubles to my brother, who promptly gave me a mold with a cavity so small in appearance that I was sure it would be a perfect fit. But after patching a few balls, and trying them in the

Continued on next page

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THE BOYS RIFLE

Continued from page 27

rifle unsuccessfully, that too had to be discarded.

I began to wonder if I could get buckshot the right size, and I was getting in a hurry to try out my experiment of making a muzzle loader liner from a breech loading barrel.

I looked in a Winchester catalog, and found two sizes . . . Eastern #1, measuring .30, and #2, measuring .27. The #1 size was two thousandths less than the smallest bullet cast by my molds, and the #2 size was far too small, so I ordered a five pound bag of #1 from the Winchester company.

A few days later, after I had received the buckshot, I tried the rifle, shooting from the window-sill of my gunroom. And, it being a cold winter day, I built up a good fire in the stove previous to opening the window. I had cut a good supply of patches with the 20 gauge wad-cutter, and filled the hopper of my Ideal powder measure with King's Semi-Smokeless, which I set by guess at 16 grains bulk.

I dropped the charge into the charge cup, which I made from an old .25-25 Stevens shell-case by soldering the head of a number six machine screw into the primer pocket and grinding off the rim. I then screwed the cup to the tip of the ramrod which I previously drilled and tapped for this screw. Inverting the rifle, I slid the charge-cup up the barrel until it struck the breech. Then changing ends with the gun, and hitting the butt lightly on the floor to settle the powder, the rod and cup were withdrawn from the bore. Two twists of the rod, and the charger came off, leaving the tip clear. I next wet a patch with saliva and placing it in the muzzle, put a ball in the middle, being careful to have it exactly centered on the patch. The ball was then given a rap with the rubber-faced mallet which started it into the rifling without deforming the bullet in the least, and then pushed down easily to rest snugly against the powder charge.

I set up the target at fifty feet, to try it out, and found that is shot a two inch group at that range. So lowered the powder charge to 12 grains bulk, and shot another group, this one with worse groups than the first. I then emptied the FG powder from the measure, and tried 14 grains of the same brand in FFG. Next group was an improvement, but nothing to what I had anticipated. I came to the conclusion, after firing nearly all afternoon, and trying several different loads of powder, that the bullets were a trifle tight for good accuracy, so I decided that since I could not find a ball to fit the bore, I would have to make the bore fit the ball.

I cast a lead lap on my lapping rod, and proceeded to enlarge the bore slightly. A few days later, at the first opportunity, I tried it out again and found that I could keep every shot in the black on the 50 foot range, using a rest. I waited impatiently for a day to come that would be warm enough for a trial at longer range.

Finally, cold weather was driven away for a few days. I took the little rifle, accessories, and Ideal powder measure to my bench rest, and proceeded to set up a target at 100 yard range. I found out in short order that it wasn't a long range rifle, so I set up another target at 50 yards. Things went better at this range and I made some fairly good groups.

In the days of muzzle loaders, boys rifles were nearly always made to order, and the boy who was considered worthy of such a gun by a father or fond uncle was lucky indeed, since most boys had to content themselves with a gun so long as to make loading and firing nearly impossible . . . and when fired usually had a recoil that would set the youthful Nimrod back a step or two . . . if it didn't actually put him on his back.

Since the invention of small bore breech-loaders, young hunters have come into their own. We have but to look into the catalog sent out by our firearms companies to see beautiful little rifles, priced so reasonably as to be within the reach of nearly every boy. But in various places, we read the fatal words, "rifles not sold to minors", and a great many states have laws prohibiting the use of guns by boys under sixteen.

Why all these alluring guns made especially for boys, and then rules forbidding their sale to the very boys they were designed for? Simply because of a lack of training.

A book containing vital information for young beginners in the shooting game should be attached to the trigger guard of every light rifle sold. The boys who get into trouble with guns are nearly always the ones that get a hold of a rifle, shotgun, or pistol without being taught how to manage it safely. This is where the National Rifle Association is doing good work by training the boys properly. If the training could only be carried far enough, there is a possibility the laws might be changed, and restrictions removed from the sale of boys' rifles.

BACK ISSUES

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LETTER TO THE EDITOR

Dear Dave,

In one of your match reports, you once commented that "around Porcupine, South Dakota, they still grow men with the bark on them".

These men also shoot benchrest rifles with the hair still on them.



Attached is a photo of Don Deckert, with a rifle that he claims was stocked by Bugs Bunny.

Huck Hutson
Red Lodge, Montana

Editor: Exactly why no one protested the rifle off the line, I have no idea. A few of these protests have been heard as high as the U.S. Supreme Court (law students are suggested to research the following cases: 1.) Porcupine Rifle Club versus Dan Dowling, 2.) Maretzo versus Masker; 3.) Masker versus The Good Humor Company, 4.) Coors Brewing versus Porcupine Rifle Club, and finally, 5.) General Motors versus Super Shoot X). In every single one of these landmark cases, hair was determined to be "guiding means." There are at least three lawsuits floating around the North Central Region right now that the editor is aware of . . . each lawsuit alleges that the shooter caught dandruff from his rifle. Shooters who insist on ordering such rifles are strongly urged to wash the rifle in Head and Shoulders before each match.

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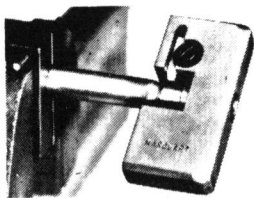
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TABLE 1.

CARTRIDGE	FULL CASE CAPACITY GRAINS WATER	CASE LENGTH INCHES	CARTRIDGE MAXIMUM LENGTH INCHES	CARTRIDGE	FULL CASE CAPACITY GRAINS WATER	CASE LENGTH INCHES	CARTRIDGE MAXIMUM LENGTH INCHES
.17 REM	26	1.786	2.150	.300 SAV	52	1.861	2.600
22 HORNET	14	1.393	1.723	.308 WIN	58	2.005	2.800
218 BEE	18	1.335	1.680	7.62MM NATO	54	2.005	2.800
.221 FIREBALL	20	1.390	1.830	.30-06	69	2.484	3.340
.222 REM	27	1.690	2.130	.300 H&H MAG	86	2.835	3.600
.223 REM	31	1.750	2.260	.308 NORMA MAG	87	2.550	3.250
.222 REM MAG	32	1.840	2.280	.300 WIN MAG	88	2.610	3.340
.219 WASP	35	1.770	2.190	.300 WEATH MAG	98	2.815	3.562
.219 ZIPPER	34	1.930	2.260	7.65MM MAUS	57	2.096	2.970
.225 WIN	40	1.920	2.500	.303 BRITISH	57	2.212	3.075
.224 WEATH	38	1.913	2.312	7.7MM JAP	60	2.264	3.150
.22-250	45	1.902	2.350	.32-20	22	1.295	1.592
.220 SWIFT	48	2.195	2.680	.32-40	41	2.130	2.500
6 X 47MM	33	1.840	2.500	.32 SPECIAL	45	2.030	2.565
.243 WIN	54	2.035	2.710	.32 REM	46	2.040	2.525
6MM/.244 REM	55	2.223	2.825	8 X 57MM MAUS	60	2.230	3.250
.240 WEATH MAG	65	2.490	3.062	8MM-06	70	2.484	3.340
.256 WIN	22	1.271	1.590	8MM REM MAG	98	2.840	3.600
.25-20 WCF	19	1.320	1.592	.338 WIN MAG	85	2.490	3.340
.25-35	37	2.030	2.550	.340 WEATH MSG	96	2.815	3.562
.250 SAV	46	1.910	2.515	.348 WIN	75	2.245	2.795
.257 ROBERTS	55	2.223	2.775	.38 SPECIAL	24	1.145	1.550
.25-06 REM	66	2.484	3.250	.357 MAG	27	1.280	1.590
.257 WEATH MAG	84	2.540	3.250	.357 HERRETT	41	1.750	2.550
6.5 X 54MM M.S.	50	2.102	3.010	.35 REM	51	1.910	2.525
6.5MM JAP	48	1.974	2.890	.351 WIN S.L.	27	1.370	1.900
6.5 X 55MM	56	2.155	3.062	.358 WIN	57	2.005	2.780
6.5MM REM MAG	68	2.160	2.800	.35 WHELEN	70	2.484	3.340
.264 WIN MAG	82	2.490	3.340	.350 REM MAG	71	2.160	2.800
.270 WIN	68	2.530	3.340	.358 NORMA MAG	88	2.510	3.230
.270 WEATH MAG	82	2.540	3.250	.375 WIN	49	2.010	2.560
7 X 57MM MAUS	59	2.225	3.065	.375 H&H MAG	94	2.840	3.600
.284 WIN	66	2.160	2.800	.378 WEATH MAG	133	2.903	3.700
7MM EXP/.280 REM	68	2.530	3.330	.38-40 WCF	40	1.295	1.592
7MM-08 REM			2.800	.38-55	52	2.120	2.550
7 X 61MM S&H	75	2.392	3.190	.44 MAG	39	1.275	1.610
7MM WEATH MAG	82	2.540	3.250	.44-40 WCF	40	1.295	1.592
7MM REM MAG	84	2.490	3.290	.444 MARLIN	66	2.215	2.570
.30 CARBINE	20	1.280	1.680	.45-70	79	2.095	2.550
.30 HERRETT	35	1.604	2.300	.458 WIN MAG	93	2.490	3.340
.30-30	45	2.030	2.550	.460 WEATH MAG	138	2.913	3.700
.30-40	58	2.304	3.089				

The above table is from the NRA publication "Handloading", by W.C. Davis, Jr., and is used with NRA permission.

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IBS News

Edited by Dave Brennan

PRECISION RIFLEMAN/ WOMAN AWARDS

The below table, courtesy of Jim Borden, brings us up to date on the Precision Rifleman/Woman awards pretty much through the end of the 1985 shooting season. Listed are the names, their level of achievement, and the year awarded. The final column lists current points of each competitor. Induction to each level will be done at the IBS Annual Meeting in January, 1986.

Inductees in January 1986 will be: Tony Boyer, silver and gold; Dick Maretzo, silver; and Nate Boop, gold.

INTERNATIONAL BENCHREST SHOOTERS PRECISION RIFLEMAN/WOMAN AWARDS

Shooter	Achievement Levels			Current # of Pts.
	Bronze 30 Pts.	Silver 60 Pts.	Gold 100 Pts.	
Jack Deming	1977	1983	1983	148.5
P.J. Hart	1977	1983	1983	100.0
Myles Hollister	1977			47.0
Jim Stekl	1977			44.5
Art Blensingher	1979			41.0
Lester Bruno	1980	1984		92.0
Gary Ocock	1980	1983	1984	136.5
Seely Masker	1981	1983		80.0
Allie Euber	1980	1983	1983	187.0
Lee Euber	1982			40.5
Glen Price	1982			30.0
Nate Boop	1982	1983	1985	111.5
Ed Goff	1982	1984		93.5
John Eaton	1982			39.0
Roger Gower	1983			42.5
Bob White	1983			58.0
Glenn Newick	1983			58.0
Richard Maretzo	1984	1985		70.0
Tony Boyer	1984	1985	1985	103.5
Joe Vinci	1984			30.0
Bart Wieder	1985			35.0

MAINVILLE

The 100-200 yard match at Mainville, Pa. on July 20th and 21st was a P.S. "designated tournament", and 47 shooters were on hand in a search for some obscure thing called "points", whatever that may be. In any event, Lester Bruno and Dick Maretzo found several of the little rascals at the Easter Egg Hunt, and left quite pleased with themselves. The weather conditions were quite good at 100 yards for both the light varmint and heavy varmint classes, although not quite "in the teens" stuff. They picked up a bit at 200 yards, but even so, one had to keep firing those .500s and .600s groups to stay halfway close to the leaders. All in all, a good weekend, with the weatherman cooperating, and the Mainville club running a good match, and doing all in their power to make it a success. The editor has been an admirer of Mainville and their efforts since he first went there, and he sees no reason to change his views now. If no one else told you, Mainville . . . nice job.

In the light varmint class, at 100 yards, Lester Bruno fired groups of .151, .173, .245, .222 and .216, for a .2014 agg, just missing those elusive teen figures. Those trailing Mr. Bruno: 2.) Bob White .2212, 3.) Dr. Richard Maretzo .2280, 4.) Bob Broody .2358, 5.) K.K. Smith .2394, 6.) Tony Boyer .2456, 7.) Nate Boop .2646, 8.) Bill Bailey .2696, 9.) Dave Brennan .2776, 10.) Dave Vogel .2778.

At 200 yards, via groups of .311, .337, .495, .805, and .719, good for a .2667 range agg, Dr. Richard Maretzo sort of ran off and hid from the rest of the field. Richard will occasionally do unsocial things such as this, despite all my preaching to him on the subject. Bob White, who was second at 100 yards, claimed the same position at 200 yards, with a .3343. Usually when you're second at both yardages, you win the grand agg . . . unless of course some character has posted a blowout 200 yard win. Okay, back to the balance of the "also ran" listings: 3.) Nate Boop .3715, 4.) Faye Boyer .3749, 5.) Bobby Hart .3796, 6.) Tony Margelewicz .3859, 7.) Alfred Ely .3867, 8.) Brian Rubright .3878, 9.) Tony Boyer .3969, 10.) Tom Horenburg .4045.

Grand agg time, and there seems to be a solid basis for giving it to the dentist, off a third place finish at the century mark, and a blowout at the longer distance. Top 10: 1.) Dick Maretzo .2474, 2.) Bob White .2778, 3.) Lester Bruno .3118, 4.) Nate Boop .3181, 5.) Tony Boyer .3213, 6.) J.K. Smith .3427, 7.) Faye Boyer .3470, 8.) Brian Rubright .3544, 9.) Bill Bailey .3663, 10.) Liz Brennan .3710.

In the heavy varmint class, at 100 yards, Lester Bruno won the bubble gum con

cession with a .2012 figure . . . almost a dead heat with the .2014 figure that Dick Maretzo had won the lighter class with. Nate Boop was second with a .2250 figure . . . again, very close to the .2212 figure that Bob White used to grab second in light varmint. Filling out the balance of top ten: 3.) Liz Brennan .2318, 4.) Don Gentner .2318, 5.) Dick Maretzo .2366, 6.) Bart Wieder .2392, 7.) Charles Frace .2636, 8.) Bob White .2670, 9.) Tony Boyer .2834, 10.) J.K. Smith .2872.

At 200 yards, Frank Obrochta, who every now and then will absolutely bury a 200 yard field, did it again, with a .2520 figure. Alfred Ely was second, with a .2784 figure, and from there back it was: 3.) Bill Bailey .2940, 4.) Charles Frace .2945, 5.) Liz Brennan

.2949, 6.) Nate Boop .2989, 7.) Dick Maretzo .2995, 8.) Bob White .3042, 9.) Richard Baker .3064, 10.) Tom Horenburg .4045.

Grand agg time, and three horses hit the finish line in a bunch, and the stewards waited for the photo to separate the three. The photo showed Lester Bruno with a .2616 had barely shaded Nate Boop's .2620, in the race for points. As for third place . . . well, let's philosophize a bit here, for a moment. Throughout the 1985 shooting season, this particular shooter told me, dozens of times, "I do believe that I'm shooting your ears off . . . again". Ordinarily I would consider this crass, and in poor form. However, after a period of time, I just came to accept it. Back to top ten: 3.) Liz Brennan .2634, 4.) Dick Maretzo .2681 (note that the third place finisher said the same thing to the fourth place finisher this weekend), 5.) Charles Frace .2791, 6.) Frank Obrochta .2848, 7.) Bob White .2856, 8.) Don Gentner .2896, 9.) Alfred Ely .2982, 10.) Bart Wieder .3150.

In the two gun agg category, Dick Maretzo picked up two more points in Benchrest Shooter of the Year competition, via a convincing win. Top ten: 1.) Dick Maretzo .2577, 2.) Bob White .2817, 3.) Lester Bruno .2867, 4.) Nate Boop .2900, 5.) Liz Brennan .3172, 6.) Tony Boyer .3259, 7.) Alfred Ely .3354, 8.) Brian Rubright .3416, 9.) Tom Horenburg .3476, 10.) Frank Obrochta .3494.

The match report does not list the small group winners, but I do know that J.K. Smith fired an .078 in heavy varmint class at 100 yards, an official screamer for sure! Why did ya waste it on the warmup, J.K.?

AUGUSTA

The Capitol City Rifle and Pistol Club, in Augusta, Maine had a mixed bag of hunter class matches on August 25th. Those familiar with Maine weather realize that you've got to have the matches over with by the first of September . . . it starts snowing early up in the Pine Tree State.

Hunter class, 200 yards (8 shooters): 1.) Joe Gilbert 240-3x, 2.) Bud Goodwin 237-2x, 3.) Ira Farnsworth 236-5x, 4.) Blaine Johnson 235-2x, 5.) Gene Carey 233-2x.

Varmint-hunter, 200 yards (6 shooters): 1.) Blaine Johnson 240-1x, 2.) Joe Gilbert 234-4x, 3.) F. Goodwin 233-3x.

Varmint for score, 200 yards (6 shooters): 1.) Blaine Johnson 243-3x, 2.) Bob Reid 242-7x, 3.) C. Poirler 241-4x.

Three gun agg: 1.) Blaine Johnson 718-6x, 2.) Joe Gilbert 715-9x, 3.) Ira Farnsworth 703-5x.



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IBS Annual MEMBERSHIP MEETING

January 10 & 11, 1986

**SHADOWBROOK RESORT
TUNKHANNOCK, PENNA.**

AGENDA:

Friday Evening - January 10

Social time in Room 201
Soda, beer, vegetable tray, chips,
drinks & good conversation
8:00 PM until ????

Saturday - January 11

Membership and Board of
Directors Meetings

8:00 AM until 7:00 PM (reserved time)

Open Membership Meeting

Introductory Remarks

Committee Reports

Special Announcements

Financial Report

Old Business

Approval or rejection of temporary
rule changes used in 1985

New Business

Approval or rejection of items sub-
mitted as temporary rule change for
1986 (See list with this announce-
ment)

Adjourn Membership Meeting

Open Board of Directors Meeting

Ratify action taken in Membership
Meeting

Set Championship Schedule and Lo-
cations for 1986

Adjourn

Informal Social Time

Breaks will be taken in the morning and
afternoon — coffee, soda and danishes will
be provided.

A buffet lunch will be available at a cost of
\$6.00 per person. The menu will be: cold meat
tray, clam chowder, potato or macaroni
salad, cole slaw, 3 bean salad, pickled
vegetable, garnishes, rolls and rye bread,
cake or ice cream, and coffee or tea.

20 rooms have been saved for IBS attendees
to reserve through December 1, 1985.
Reservations can still be made after De-
cember 1, but rooms will not be held spec-
ifically for us after that time.

Room Rates:

Single Occupancy -

\$32.00 Regular room/\$40.00 Queen Studio

Double Occupancy -

\$40.00 Regular room/\$50.00 Queen Studio

The Shadowbrook has a racketball facility,
Nautilus room, sauna, bowling alley, dairy
bar, dance floor with disco lighting and a
restaurant for guest enjoyment

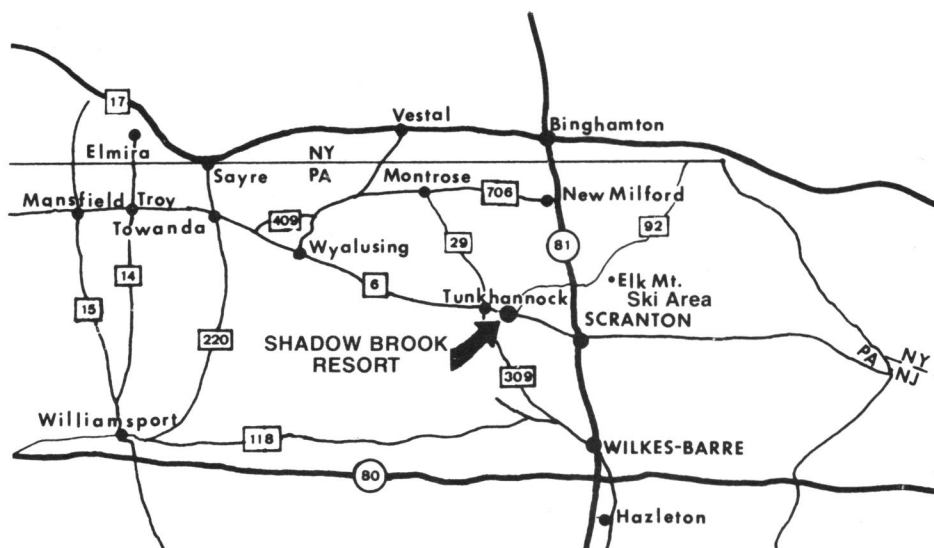
Other Motels in the area include:

Maplehurst (11 miles) 717-833-2121

Nichols Village (15 miles) 717-587-1135

Skyline (8 miles) 717-836-3145

Budget Inn (15 miles) 717-586-9100



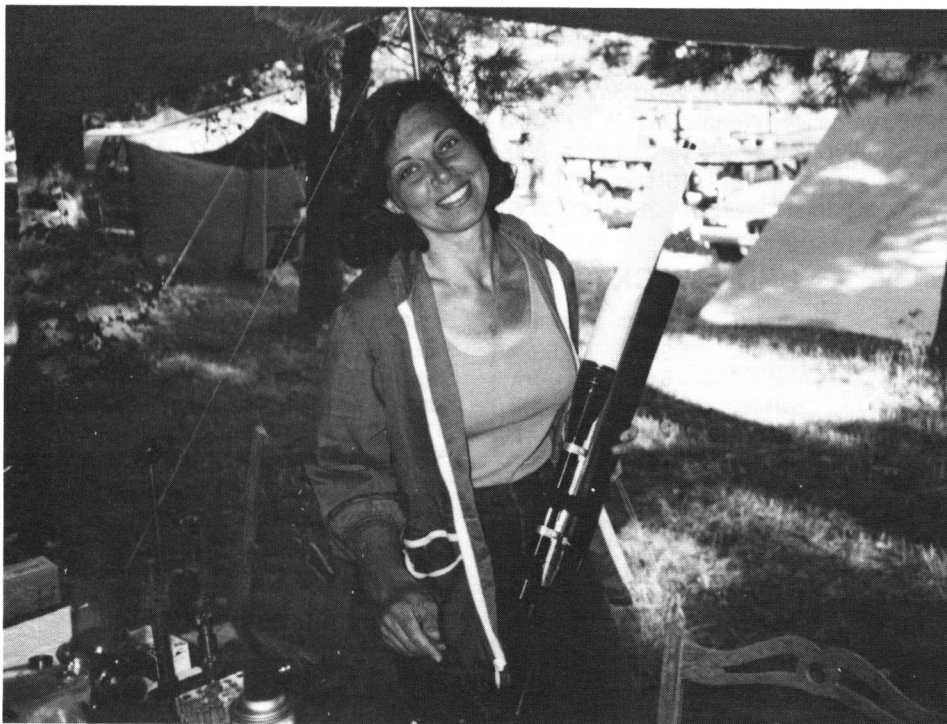
1985 AGENDA ITEMS

The following items are proposed rule
changes that IBS members have submitted
for consideration at the 1985 Annual
Membership meeting to be held in January
1986:

1. Ratify temporary rule changes made at
the 1984 annual meeting.
2. Proposed rule changes effecting the
IBS 100/200 Yard/Meter Champion-
ships
 - a) Change the IBS Championships to
have a 2-Gun, 3-Gun, and 4-Gun
Champion. 2-Gun would be LV/SP.
3-Gun would be LV/SP/HV. 4-Gun
would be LV/SP/HV/HB
 - 1) run the 4-Gun Monday through
Saturday
HB 100 on Monday
HB 200 on Tuesday
LV/SP 100 on Wednesday
LV/SP 200 on Thursday
HV 100 on Friday
HV 200 on Saturday
or
 - 2) run the 4-Gun Wednesday
through Sunday
HB100&200 on Wednesday
LV/SP 100 on Thursday
LV/SP 200 on Friday
HV 100 on Saturday
HV 200 on Sunday
 - b) Keep the existing 2-Gun and Three
Gun but run the Sporter Champi-
onship with the 3-Gun. Have
HB100&200 on Wednesday and
then LV/SP/HV on Thursday
through Sunday.
 - c) If neither of the above pass, then
begin holding a Sporter Champi-
onship on a separate weekend
along with a registered Heavy
Varmint match.

3. Have a mandatory warm-up at every
registered IBS match. Eliminate the
use of 3 minute sight-in periods.
4. Eliminate the mass weigh-in. Weigh-ins
to be held at referees discretion as
currently stated in the rulebook.
5. Shower facilities mandatory for all IBS
ranges.
6. Junior shooters (16 years old and
under) to be allowed to shoot at a
discounted fee to be established when
this item is voted on. Suggestion is
either half price or free.
7. Clubs shall be required to provide the
following minimum trophies for IBS
Championships: First through Fifth in
Range aggregate. Second through
Sixth in Grand Aggregate and Multi-
Gun, Small Group at each yardage in
each class.
8. Require clubs hosting IBS matches to
guarantee the following minimum
trophies/awards: First through Third in
Grand, First at Range Aggregate,
Small group each class and yardage,
and First and Second in multi-gun.
9. Beginning January 1, 1987 the light
varmint class is to be limited to .230
caliber and smaller, and the sporter
class is to be larger than .230 caliber.
10. Re-establish the three gun varmint
championships as heavy varmint, light
varmint, and sporter classes if motion
#9 above passes.
11. A competitor firing before "commence
fire" command shall constitute
grounds for disqualification in all
classes of competition and voiding of
all groups fired at the effected match.

12. Change section v, paragraph G, to allow a competitor selection of benches when bench rotation is used. The intent is to allow husband/wife or families to use the same set of benches, to relieve the hardship associated with multiple equipment. Drawing of benches would still be required when bench rotation is not used. Competitors wishing to double up on equipment would be required to contact the club, in writing, at least two weeks in advance of the match.
13. Eliminate the "Did not qualify" concept for missing shots, and shots outside of the border. Replace the DNQ with a one minute of angle penalty for each missing shot, or shots outside of the border.
14. Require membership (IBS, NBRSA, or affiliated foreign) to shoot at any registered IBS shoot.
15. A. At all IBS registered shoots, require targets to be left hanging at the wailing wall until the aggregate has been figured, and places have been posted. In the case of foul weather, the statistician would be responsible for returning the targets to the scoring shack.
B. If A.) above not passed for all IBS registered shoots, then require for all IBS championships.
16. Require loading data to include powder, amount of powder, caliber, bullet by make and weight, and primer to be listed on data card. Failure to do so would be grounds for disqualification.
17. If anyone blows up a rifle and injures themselves or someone else, they are to be banned from competition for one year; and a second occurrence shall cause them to be banned for life.
18. Require the President of IBS to appoint a Championship Committee. Said Committee would be comprised of three to four experienced competitors, and three to four range owners or operators. The purpose of the committee would be to develop a set of minimum standards required to hold IBS championships. These requirements would include such items as sanitary, electrical and mechanical, as well as trained staff capabilities. After the minimum requirements are established, the committee would then list the qualified clubs that could bid on the championships. Clubs requesting to be added to the bid list would require inspection by qualified personnel appointed by the President.
19. Re-issue the rule book, and update the Hunter class rules and the format of the rule book to be less confusing. Use a three ring binder format that is easier to update.



While the editor normally does not advocate any contention at all between the IBS and NBRSA, none the less, he thought he just might print this photo of Ann Showers, one of the better looking additions to the match circuit this year . . . and we'll sit back and see what the NBRSA comes up with. I'll be disappointed in them if they do nothing.

International Benchrest Shooters 1985 Election Announcement

Ballots for the election of the Executive Secretary and Treasurer of the IBS will be mailed to the homes of members in late November. The ballots need to be returned to the Recording Secretary no later than December 31, 1985.

The candidates for offices are as follows:

EXECUTIVE SECRETARY
TONY MARGELEWICZ
MIKE TOTH

TREASURER
BILL BAILEY
PAUL RYAN

YORK

The Izaak Walton League, at York, Pa. held a match for the various hunter classes on July 21st. It was billed as the York County 100 yard championships . . . and 27 shooters must have wanted that title . . . because they came out to shoot for it.

In the varmint-hunter class (5 shooters), it was: 1.) K.L. Miller 249-13x, 2.) Lou Ressler 248-11x, 3.) Wm. Wagman 248-9x. Agg winner K.L. Miller, of Jacobus, Pa. fired a 6 PPC, Remington action, Hart barrel, Weaver T6 scope, 27.6 grains of H 322 with 70 grain Custom bullets, and Federal primers, in a rifle smithed by Clarence Hammonds.

In the hunter class (the editor refuses to acknowledge a hunter-hunter class), with 10 shooters, it was: 1.) Dick Pryor 249-11x, 2.) Vince Pastorella 248-14x, 3.) Guy Green 247-5x, 4.) Ron Poisker 246-7x, 5.) Geo. Schuckers 244-3x. Agg winner Dick Pryor, of Thurmont, Maryland fired a 6x44, Remington action, McMillan barrel, Leupold 6x scope, 36.0 grains of 4320 powder with 68 grain Brian Rubright bullets, and Remington primers, in a rifle smithed by himself.

In varmint-for-score, with 12 shooters, it was: 1.) Agnes Sabo 250-18x, 2.) Ben Druck 250-16x, 3.) Don Jones 250-15x, 4.) E. Clevenger 250-15x, 5.) Dick Grosbier 250-12x, 6.) R. McGulgan 250-12x, 7.) John Mason 250-12x. Agg winner Agnes Sabo, of Hazleton, Pa. fired a 6 PPC, Hart action, Hart barrel, Leupold 36x scope, 27.5 grains of H 322 with 70 grain Olewine bullets, in a rifle from an unreported gunsmith (darn it, somebody had to make the confounded thing . . . it would seem. Unless she got it from a hand holding it out of a lake . . . like King Arthur got Excalibur).

THURMONT

The Thurmont Conservation and Sportsman's Club had 22 shooters on hand for a 100 yard match for the various hunter classes on August 4th.

The popular varmint-for-score class was won by John Mason, of Seat Pleasant, Maryland, using a new Schneider barrel rifled in the "polygon" style to Homer Culver's specifications. I've been hearing good things about these barrels from Homer's Army (a grouping of shooters in that area who subscribe to the theory that Homer Culver is the only guy who knows anything in the whole confounded world). The John Mason gun was also gunsmithed by Homer Culver . . . which means that I'll be hearing about this for months from Homer's Army. At least one of the Army

came up to Dunham's Bay this summer, and he fit right in with that collection of characters . . . so I guess that they're no more crazy then the rest of us. And some of them are sort of interesting to listen to. But don't tell them that . . . the last thing in the world that they need is any encouragement.

Varmint for score (10 shooters): 1.) John Mason 250-17x, 2.) Charles Kinard 250-10x. 3.) Richard Parker 249-13x, 4.) Dick Grosbier 249-13x, 5.) Paul Olewine 248-9x. Agg winner John Mason, of Seat Pleasant, Maryland (and a member of Homer's Army, membership renewal date in April, 1986) fired a 6 PPC, Hall action, Schneider barrel, Leupold 36x scope, with 27.0 grains of H 322 and Don Jones bullets, in a rifle gunsmithed by Homer Culver.

In varmint-hunter class (7 shooters), top shooters were: 1.) Richard Pryor 250-13x (darn near beat the guys with the 36 powder scopes), 2.) K.L. Miller 248-11x, 3.) Robert Broyles 246-9x, 4.) Wm. Wagman 246-9x, 5.) Milton Cook 245-8x. Agg winner Richard Pryor of Thurmont, Maryland fired a 6 PPC, Remington 700 action, McMillan barrel, Leupold 6x scope, 27.0 grains of T 322 with 68 grain Brian Rubright bullets, in a rifle smithed by himself.

In the hunter class (5 shooters), it was: 1.) Charles Simpson 249-13x, 2.) John Eckenrode 245-4x, 3.) Steve Weddle 243-7x. Agg winner Charlie Simpson, of Fredrick, Maryland fired a .308, Remington 700 action, McMillan barrel, 40.5 grains of H 4895 with 70 grain Custom bullets, in a rifle smithed by party unknown.

BRUNSWICK

The Brunswick (Virginia) gang hosted the Virginia State Championships on August 24th and 25th for heavy varmint, light varmint, and heavy bench classes. There was an extremely liberal supply of trophies (three awards for each yardage, small group trophies for each yardage, three trophies for each grand agg, and the Homer Culver trophy for the heavy bench class. When a club tries this hard to make a match attractive . . . they deserve support.

Heavy bench class (10 shooters), 100 yards: 1.) Clay Spenser .2950, 2.) John Chrisman .3364, 3.) Tony Boyer .3414, 4.) Ogden Black .3462, 5.) Matt Green .3860. At 200 yards: 1.) John Chrisman .3666, 2.) Clay Spenser .4324, 3.) Ogden Black .4354, 4.) Matt Green .5293, 5.) Tony Boyer .5297. Grand agg went to one of Homer Culver's Army, and that should have

pleased Homer: 1.) John Chrisman .3515, 2.) Clay Spenser .3637, 3.) Ogden Black .3908, 4.) Tony Boyer .4355, 5.) Matt Green .4576. Small group at 100 yards was John Chrisman's .218, and Clay Spenser took the 200 yard honors with a .558.

Light varmint class: (11 shooters), 100 yards: 1.) Smiley Hensley .2432, 2.) Paul Bollinger .2488, 3.) Bill Bailey .2530, 4.) Wendal Dean .2832, 5.) W.S. Mays, Jr. 2894. At 200 yards: 1.) Smiley Hensley .2943, 2.) W.S. Mays, Jr. .3191, 3.) Wendal Dean .3721, 4.) Bill Bailey .3926, 5.) Elsie Turner .4592. Grand agg went to the guy who took both yardages (not surprisingly): 1.) Smiley Hensley .2687, 2.) W.S. Mays, Jr. .3042, 3.) Bill Bailey .3228, 4.) Wendal Dean .3276, 5.) Elise Turner .3842. Small group at 100 yards was Wendal Dean's .123, and Bill Bailey took it at 200 yards with a .360.

Heavy varmint class (19 shooters), 100 yards: 1.) John Davidson .2870, 2.) W.S.

Mays .2908, 3.) Smiley Hensley .2996, 4.) Bill Bailey .3056, 5.) John Doherty .3070. At 200 yards the field spread out a tad: 1.) Tony Boyer .2841, 2.) Ogden Black .3219, 3.) Bill Bailey .3430, 4.) Smiley Hensley .3448, 5.) Wendal Dean .4057. Grand agg, and we'll see four out of five of the top five at 200 yards again: 1.) Tony Boyer .3219, 2.) Smiley Hensley .3222, 3.) Bill Bailey .3243, 4.) Ogden Black .3387, 5.) John Davidson .3487. Small group at 100 yards was John Davidson's .161, and at 200 yards it was Ogden Black's .235.

Two gun awards. Heavy bench-heavy varmint: 1.) Ogden Black .3647, 2.) Clay Spenser .3726, 3.) Tony Boyer .3782, 4.) Wendal Dean .4204, 5.) Bernard Bibb .4745. Light varmint-heavy varmint: 1.) Smiley Hensley .2954, 2.) Bill Bailey .3235, 3.) Wendal Dean .3497, 4.) W.S. Mays .3761, 5.) John Davidson .3814.

BRUNSWICK

Heavy Bench	Caliber	Action	Scope	Barrel	Gunsmith	Stocker	Load	Bullett	Primer
J. Chrisman	6 BR	Culver	Unertl 35x	Hart	Self	Brewer	31gr. H-4895	69gr. Bt. Culver	Fed. 205M
C. Spencer	6 PPC	XP-100 Slv.	Leu.-36x	Hart	Self	Self	28gr. H-322	65gr. Metz.	Fed. 205M
O. Black	6 PPC	40X Slv.	L/S-30x	Hart	Spencer	Self	28gr. H-322	65gr. Metz.	Fed. 205M
T. Boyer	6 PPC	40X Slv	Leu.-36x	Wiseman	Hollister	Self	29.3gr. N-201	68gr. Euber	Fed. 205M
M. Green	6 PPC	Kempfer	Unertl-36x	Hart	Kempfer	Kempfer	50.5-T-322	68gr. Bt. D.J.	Fed. 205M
Light Varmint									
S. Hensley	6 PPC	40X	Leu.-36x	Hart	Sinclair	Boyer	28.5gr. H-322	68gr. Euber	Fed. 205M
W.S. Mays	6 PPC	XP-100	Leu.-36x	McMillan	Spencer	Spencer	27gr. H-322	65gr. Metz.	Fed. 205M
B. Bailey	6 PPC	Hart	Leu.-36x	Hart	Hart	Hart	28gr. H-322	68gr. Euber	Fed. 205M
W. Dean	6 PPC	Hall	Leu.-36x	Wiseman	Hollister	Kelly	27gr. T-322	68gr. F.B. Euber	Fed. 205M
E. Turner	6 PPC	Hall	Leu.-36x	Hart	Sinclair	Sinclair	—	68gr. Turner	Fed. 205M
Heavy Varmint									
T. Boyer	6 PPC	Hart-2A	Leu.-36x	Wiseman	Hollister	Self	29.8gr N-201	68gr. F.B. Euber	Fed. 205M
S. Hensley	6 PPC	40X	Leu.-36x	Hart	Sinclair	Boyer	28.5gr. H-322	68gr. Euber	Fed. 205M
B. Bailey	6 PPC	Hart	Lyman-35x	Hart	Hart	Hart	28gr. H-322	68gr. Eube	Fed. 205M
O. Black	22 PPC	40-BR	L/S-30x	Rem	Spencer	Self	27gr. T-322	52gr. Berger	Fed. 205M
J. Davidson	6 PPC	Hall	L/S-40x	Hart	Eaton	—	27gr. T-322	68 Berger	Fed. 205M

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P.O. Box 176
43100 Parma, Italy

B.B.R.S.A.

Neil Jones
48 Stafford Lane
Hednesford, Staffordshire
England

BRUNSWICK GUN CLUB

P. O. Box 315
Lawrenceville, Va. 23868

CAMILLUS SPORTSMEN CLUB

Hank Gonnella, Sr.
420 Hawley Ave.
Syracuse, NY 13202

CAPITOL CITY R & P CLUB

J. O. Gilbert
17 Forest Ave.
Augusta, Maine 04334

CBRSA

Jon Murdoch
33 Goldwich Crescent
London, Ontario,
Canada N5V 2K9

CENTRAL JERSEY R & P CLUB

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Highland Park, NJ 08904

COUNCIL CUP RIFLE RANGE

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300 W. 4th St.
Nescopeck, PA 18635

DBRV

Peter Hammerich
Heimstttenstr-30
8000 Munchen 40 West Germany

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E.B.S.A.

Michael Toth
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Cateret, NJ 07008

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Peckville, PA 18452

HOLMESBURG FISH AND GAME

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Philadelphia, PA 19124

IBS-FRANCE

George Cunningham
38 Rues Barbes
92120 Montrouge, France

JEFFERSON COUNTY IWLA

Milt Cook
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Charlestown, W. Va. 25414

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Bloomsburg, PA 17814

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SSAA

Ron Marsden
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Chuck Pardoe
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Muncy, PA 17756

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Robert Linn
73 Jolo Way
York, PA 17403

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

Name
Address
City State Zip

IBS MEMBERSHIP

- () IBS membership and PS for one year — \$20.00
() Associate member (no magazine) other members of same household — \$7.00
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NBRSA News

Edited by Dave Brennan

NATIONAL BENCHREST SHOOTERS ASSOCIATION Board of Directors Meeting

Midland, Texas
August 3, 1985

The annual Board Meeting of NBRSA was called to order at 4:15 PM at the Best Western Motel in Midland, Texas by President Walt Berger.

All Directors were present with the exception of the Northeast Director. Dave Brennan was designated as his proxy and was present. Francis Broussard, Measuring Committee Chairman and Tom Hexum, Northwest Region Director Elect were also present.

Before the actual Board Meeting convened at 6:42 the Directors discussed several protests that had been presented and ruled upon them at that time.

The annual financial report was distributed prior to the meeting. After review and discussion Mike Prokosch made a motion to accept the Treasurer's report as presented. Jim Fowell seconded and motion passes unanimously. Report to be filed for audit.

The Directors were advised by President, Walt Berger, that a new printer had been found in Barberton, Ohio for printing NBRSA targets. A one years supply has been printed and is now available through NBRSA. After some discussion on the costs and how the targets would be handled Ed Watson made a motion to charge the following prices for the targets:

BR-100 100 Yard Benchrest Targets
— \$ 40.00 per 1,000
BR-200 200 Yard Benchrest Targets
— \$ 40.00 per 1,000
BR-300 300 Yard Benchrest Targets
— \$ 60.00 per 1,000
HBR-100 100 Yard Hunter Targets
— \$ 70.00 per 1,000
HBR-200 200 Yard Hunter Targets
— \$ 70.00 per 1,000
HBR-300 300 Yard Hunter Targets
— \$160.00 per 1,000

Prices are guaranteed for one year and are f.o.b. Barberton, Ohio Ron Hoehn seconded the motion and motion passed unanimously.

A suggestion was made to write a thank you letter to Steve Gibbons for his efforts in the target project. It was also suggested that a thank you letter be written to Coors Beer for sponsoring the Nationals in Midland. Secretary will prepare letters and submit it to Walt Berger for signature.

It was suggested that targets and rule books be listed in *Precision Shooting* magazine. David Brennan to handle this.

The reading of the 1984 minutes were dispensed with. Stan Buchtel made a motion to accept the 1984 minutes as published, Jim Fowell seconded and motion passed unanimously.

The question came up on how a world record was handled at last years Nationals at Kelbly's Rifle Range. This was discussed and it was agreed that future possible world records will be handled according to the Rule Book. At this time it was brought to the attention of the Directors that a portion of this rule had been dropped inadvertently from the Rule Book somewhere along the way during changes made in prior years, part omitted was "targets shall not be removed from the range if is considered to be a possible world record."

Francis Broussard was called upon to discuss the problems he is having with world record targets and backers. After his presentation he requested the Board to rule on how to handle the particular two sets of targets in question. This was done and Francis was advised that the Directors will do a better job in the future.

Francis also discussed equalling of Hunter records and suggested that targets be held for one year to determine a real World Record.

Ron Hoehn made a motion that because of the increased difficulty of the "X" on the newer style IBS 200 yard hunter target we now use, that all 200 yard aggregates fired in 1985 of 249-any X be submitted for new world record 200 yard aggregate. At the end of 1985, the best set of targets sub-

mitted, shot on the new style target, would be the new record holder. Do the same thing for the 300 yard aggregate, 100-200 yard aggregate (499 more than 16 X's), 200-300 yard aggregate, and the 100-200-300 yard aggregate. Mike Prokosch seconded and motion passed.

Patent coverage of NBRSA Logo was discussed, Trademark coverage has been renewed for another six years. Again, it was stressed to use the registered mark anytime the Logo is used.

Walt Berger stated that he had received a letter from Bill Forrester, of the Mississippi Valley Region, requesting that the state of Kentucky become part of the Eastern Region. Some discussion followed and Stan Buchtel then made a motion to make the state of Kentucky a part of the Eastern Region. Ron Hoehn seconded the motion and the motion passed unanimously.

Dennis Thornbury made a motion to reduce match time from 7 minutes to 5 minutes and from 12 minutes to 10 minutes. Motion died for a lack of a second.

Discussion was held on a 3 minute sight in period. Each Director is to check with their clubs and advise David Brennan whether clubs will be having a warm up match or 3 minute sight in time so that it can be published in the match schedules. During this 3 minute time period a referee is permitted to help shooter get on the paper.

Stan Buchtel made a motion to ammend Item 5, Section "E" EMERGENCY COMMANDS: add to end of sentence: Two minutes will be added to the remaining time — "but not exceed the original time limit of 7 minutes of 12 minutes." Ed Watson second and motion passed.

Mike Prokosch made a motion to correct item "G" on page 25 of the Rule Book to read 3 minute "sight in period" instead of "3 minute match" Jim Folwell seconded and motion passed unanimously.

Sandbags were again discussed. Howard Dietz made a motion to insert at the

end of Item 7 on Page 8 of the Rule Book the following sentence. "The rifle must be able to be lifted freely from the sandbag in a vertical direction with all attachments in place." Stan Buchtel seconded and motion passed unanimously. The Directors were in agreement that tape on the sandbag is legal.

Dennis Wagner made a motion that if a competitor feels a remeasurement is not handled properly, three referees would remeasure and the average of the three referees measurement will become the official score. Ron Hoehn seconded. Seven Directors approved the motion, one opposed and one abstained. The motion passed.

Jim Folwell asked some questions on the Life Membership Fund. How is the fund invested and if it is supporting Life Members. He was advised that the Life Membership Fund is invested in Certificates of Deposit and that the interest earned at this time does not cover the total cost of Life Members subscriptions. Life Members subscriptions are paid on a monthly basis just like all other memberships. Life Memberships represent 16% of the total membership at this time.

Jim Folwell made a motion to enter into a two year contract with *Precision Shooting* for a fixed subscription rate for a specified period of time. Discussion followed and David Brennan expressed his Board of Directors feelings and statement of financial condition and what some of the future plans for the magazine are. Jim's motion died for a lack of a second.

Mike Prokosch made a motion that Course of fire (as sent out to Directors by mail ballot) be included in the Rule Book, Page 28, Item 4:

(a) Targets (100, 200 & 300 yards) for hunter class to be NBRSA approved.

(b) The course of fire shall be five record matches at each range aggregate of 100, 200 and 300 yards. The total of the two or three range aggregates will determine the grand aggregate winner. A "warm-up" match is optional at the discretion of the participating club.

(c) Matches to be fired separately with twenty (20) minutes elapsing from the end of relay to start of same relay in next match. Seven minutes allowed to fire (5) shots.

(d) Remains the same except for last sentence, which should read: If there is more than one shot on the record bull, except 300 yard, then only the lowest shot on that bull will count.

Jim Folwell seconded this motion and motion passed unanimously. Mike Prokosch made a motion to add to page 29, under Item 4. Course of Fire an item (f): Course of fire for regional tournaments to

be the same as National match course of fire. Jim Folwell seconded and motion passed.

Jim Folwell made a motion that when revisions to the Rule Book are made that revisions are made available to members of the organization by January 1st of the new year. A copy of final draft of changes are to be sent to all Directors who will note any corrections that are to be made, without changing the intent of original rule change motion made at Directors Meeting, and return to secretary within 30 days. Dennis Wagner seconded. Ed Watson amended the motion to change 30 days to 10 days. Five Directors were in favor, four opposed. Motion passed.

Jim Folwell sighted several items that were incorrect in the Rule Book and that it be brought up to date. Mike Prokosch volunteered to put the entire rule book into his word processor and submit a copy to all Directors for their review and comments. This is to be done before printing new rule books. This is to be done as soon as possible as only 1000 rule books were printed at the last printing and the supply is getting low.

It should be noted that the insert printed from 1984 Director's meeting incorrectly state a change under "SAFETY", Page 13. This change should have been under "RANGE OFFICER" on Page 18 and is to be included in the Range Officer's Command at the beginning of the day.

The Board approved the adoption of the IBS 100/200/300 yard hunter targets at the 1984 Board Meeting and those clubs who purchased IBS targets should be aware that they are still acceptable and the NBRSA targets can be purchased when their present supply of IBS targets is depleted.

Mike Prokosch made a motion that all protest fees be \$5.00. Ed Watson seconded and motion passed unanimously.

Penalty for removing targets from walling wall before aggregate is posted was discussed. It was agreed that no action was required on this subject as it is adequately covered under both Range Officer Commands and Sportsman like conduct.

Ron Hoehn made a motion to change Page 26, Item 6 — RECORDS (a) to read: The NBRSA shall maintain records for the 100 yard aggregate, 200 yard aggregate, 300 yard aggregate and grand aggregate. Mike Prokosch seconded and motion passed unanimously.

Measuring device for Hunter Class was discussed. Lines should be as thin as possible. Circles to be exact caliber size. Jim Folwell will contact Manley Oakley to make prototype. Prototypes to be brought

Continued on next page



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BOARD OF DIRECTORS MEETING

Continued from page 37

to next National for Directors to try. Mike Prokosch made a motion to have the measuring device the exact caliber, Ed Watson seconded and motion passed.

Mike Prokosch made a motion to have stationary backers at all regionals. Motion died for lack of a second.

Walt Berger reported on status of NBRSA-IBS merger and stated that there were several factors that could not be reconciled. They want to keep their own rules, they want to hold two nationals - one East and one West, and they do not like our policy for electing Directors.

Mike Prokosch suggested a need for a tape backup for NBRSA data in the computer. No action taken.

Mike Prokosch made a motion that NBRSA recognize any member of any Benchrest Association in the world that we recognize. David Brennan seconded and motion passed unanimously.

Howard Dietz made a motion to remove the sentence "Target covers should be used to cover all targets not being fired during the active relay." in first paragraph on page 12. Stan Buchtel seconded and motion passed unanimously.

Howard Dietz made a motion that at least one Director act as Chief Referee for each class at future National Turnaments. Stan Buchtel seconded and motion passed unanimously.

Mike Prokosch made a motion to change page 16 top paragraph the word "prior" to "at". Dennis Thornbury seconded and motion passed unanimously.

Stan Buchtel made a motion to retain present Editor at present remuneration. Howard Dietz seconded and motion passed unanimously.

Mike Prokosch made a motion to keep Secretary salary at present amount. Dennis Thornbury seconded. Motion passed unanimously.

Bids were submitted for 1987 Hunter Nationals.

Howard Dietz bid for Central Texas Benchrest Shooters Association in New Braunsfels, Texas.

Ron Hoehn bid for St. Louis Benchrest Shooters in St. Louis, Missouri.

Vote was taken:

Central Texas Benchrest — 7

St. Louis Benchrest — 2

1987 Hunter Nationals were awarded to Central Texas Benchrest Shooters Association - no date set at this time.

Bids for 1987 Varmint & Unrestricted Nationals were submitted:

Ed Watson bid for Long Creek Rifle Club

in Charlotte, North Carolina.

Stan Buchtel bid for Kelbly's Rifle Range in N. Lawrence, Ohio.

Vote was taken:

Long Creek — 8

Kelbly's Rifle Range — 1

1987 Varmint & Unrestricted Nationals were awarded to Long Creek Rifle Club.

Election of Officers were held with only one office being voted at this time.

Jim Folwell nominated Mike Prokosch for Secretary-Treasurer. Howard Dietz nominated Stella Buchtel.

Vote taken:

Mike Prokosch — 2

Stella Buchtel — 7

This term is for two years, expiring August 31, 1987.

The Office of President and Vice President will be voted in 1986 for a two year term.

With no further business on hand, Stan Buchtel made a motion to adjourn the meeting, Ed Watson seconded and the meeting was adjourned at approximately 12:20 AM.

Stella Buchtel

Secretary-Treasurer

Approved Walt Berger

President

WILMINGTON

On September 7th and 8th the Buccaneer Gun Club hosted their "Shrimp Fest Invitational", a Three Gun 100 yd. Shoot. Only 21 shooters braved the 95 degree heat and high North Carolina humidity. A much larger turnout was expected and there were 60 pounds of shrimp on hand, so no one left hungry. Things got started Saturday morning with Skip Peeden, a new shooter taking the win in Light Varmint with a fine .2320 followed by 2.) James Messer .2528, 3.) Fletcher Williams .2570, 4.) Jim Nations .2600, 5.) Tom VanLandingham .2642. Small Group went to Skip Peeden with a .124. Skip Peeden of Piedmont, S.C. fired a 6PPC in a sleeved Remington Act., Hart barrel, Lyman Siebert 30 power scope and 25 grains of 4198 behind Watson 62.5 grain bullets in a gun smithed and stocked by Sinclair. In the Heavy Varmint Class Nat Britchert decided that he would like to try a .22. He had an old Remington 22-250 barrel which he had cut off and chambered for 22PPC and screwed into a Hall action. This combination gave him the win with an excellent .2274. He was followed by 2.) Ed Pennebaker .2508, 3.) Jim Nations .2804, 4.) Wilton Leeuwanberg .2896, 5.) Ed Watson .2928. Small Group was Nat Britchert with a .106. Nat, from Durham, N.C. shot a 22PPC, Hall action, Remington barrel, Leupold 36 power scope and 26 grains of H322 behind Watson 52 grain

bullets in a gun that he smithed and stocked himself. On Sunday morning Ed Watson continued his dominance of the Unlimited Class 10 Shot by winning with an excellent .2238 with the rest of the field well back. 2.) James Messer .3196, 3.) Jerry McFall .3210, 4.) Ted Manning .3238, 5.) Bob Anderson .3242. Small Group went to Jerry McFall with an Official Screamer .181. Ed, of Greenville, S.C. fired a 6PPC, Hall action, Hart barrel, Redfield 28 power scope and 25½ grains of T-322 behind Watson 62.5 grain bullets in a Bill Hall rail gun smithed by Broughton. Ed Watson took the Three Gun with room to spare, .2696 followed by 2.) James Messer .2911, 3.) Ed Pennebaker .3057, 4.) Tom Van Landingham .3108, 5.) Jim Nations .3122.

Submitted by:

Tom Van Landingham

COOPERSTOWN

There were 15 shooters at Cooperstown, North Dakota on June 8th and 9th . . . and exactly why they were there will forever remain a matter for conjecture . . . the winds were gusting up to 60 mph, it was a cold 65 degrees, and the blown dust was good enough to film a "Lawrence of Arabia" film in. None the less, the locals were not daunted . . . which sort of makes you worry about the common sense level in North Dakota. Surely the local library could have furnished you fellows with a couple of good books to read over the weekend?

Light varmint class, 100 yards: 1.) Stan Legg .4892, 2.) Grant Schick .5084, 3.) Ed Reiten .5248. Small group, Al Phillips .223. At 200 yards: 1.) Don Judd .6397, 2.) Al Phillips .7627, 3.) Tom Hexum .8594. Grand agg: 1.) Don Judd .5877, 2.) Al Phillips .6495, 3.) Jim Smola .7495. Grand agg winner Don Judd, of New Brighton, Minnesota fired a 6 PPC, a CPS action, a JBC barrel (the barrel now produced by Dan Lilja), Leupold 36x scope, 27.5 grains of H 322 with his own bullets, in a rifle smithed and stocked by himself.

Heavy varmint class, 100 yards: 1.) Ed Reiten .3362, 2.) Tom Hexum .4058, 3.) Grant Schick .4124. Small group, Tom Hexum .179. At 200 yards: 1.) Tom Hexum .4654, 2.) Grant Schick .5560, 3.) Everett Amundgaard .5744. Small group, James Smola .507. Grand agg: 1.) Tom Hexum .4356, 2.) Ed Reiten .4671, 3.) Grant Schick .4842. Grand agg winner Tom Hexum, of Maplewood, Minnesota fired a .22 Hex, sleeved 700 action, Hart barrel, Lyman Siebert 30x scope, 23.6 grains of BR-28 powder with PCBC 51 grain bullets, in a rifle smithed by Wallace, and stocked by Fred Sinclair.

The two-gun award: 1.) Don Judd .5709, 2.) Tom Hexum .5929, 3.) Al Phillips .6100.

ISSAQUAH

The Puget Sound Benchrest Rifle Club hosted 22 shooters for the Washington State light varmint and heavy varmint championships on June 15th and 16th.

In the light varmint class, at 100 yards, top five: 1.) Steve Kostanich .2354, 2.) Sid Sato .2394, 3.) Lee Andrews .2584, 4.) Del Bishop .2766, 5.) Jim Folwell .2994. Small group was an official screamer, a tidy .086 fired by Dan Lilja, of Plains, Montana (the barrel maker who took over the Don Judd business). At 200 yards: 1.) Jim Folwell .3895, 2.) Lee Andrews .4037, 3.) Del Bishop .4174, 4.) Joe Mendham .4219, 5.) Tom Hexum .4487. Small group was Lowell Boyd's .425. Grand agg: 1.) Lee Andrews .3310, 2.) Jim Folwell .3445, 3.) Del Bishop .3470, 4.) Lowell Boyd .3797, 5.) Steve Kostanich .3860. Grand agg winner Lee Andrews, of Hellena, Montana fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, 27.6 grains of 322 with Euber 68 grain bullets, in a rifle smithed and stocked by Fred Sinclair.

In the heavy varmint class, at 100 yards: 1.) Bill Campbell .2766, 2.) Lee Andrews .2822, 3.) Tom Hexum .2848, 4.) Jim Lott .3376, 5.) Bill Trammer .3380. Small group was another official screamer, this one a .092 by Lee Andrews. At 200 yards: 1.) Tom Hexum .3423, 2.) Del Bishop .3717, 3.) Lee Andrews .3846, 4.) Harry Romasko .3966, 5.) Bill Campbell .4437. Grand agg: 1.) Tom Hexum .3136, 2.) Lee Andrews .3334, 3.) Bill Campbell .3602, 4.) Harry Romasko .3696, 5.) Del Bishop .3787. Grand agg winner Tom Hexum, of Maplewood, Minn. fired a .22 Hex (?) in a sleeved 700 action, Hart barrel, Lyman--Siebert 30x scope, 23.6 grains of BR 28 with 51 grain PCBC bullets in a rifle smithed by Wallace, and stocked by Fred Sinclair.

GREELEY

The Northern Colorado Benchrest Shooters may have only had eight shooters at their hunter class match on June 9th, but that didn't stop the eight shooters from rewriting both the range records, and the range grand agg record as well . . . plus turning in the first 250 score ever in Colorado, as far as anyone can tell. At 100 yards: 1.) Bill Ruth 250-11X, 2.) John Ambler 247-8X, 3.) R.C. Sumner 246-11X. At 200 yards: 1.) R.C. Sumner 247-0X, 2.) 244-1X, 3.) Bill Ruth 243-3X. Grand agg: 1.) Bill Ruth 493-14X, 2.) R.C. Sumner 493-11X, 3.) Erv Reigles 488-7X. Grand agg winner Bill Ruth, of Greeley, Colorado fired a .30 SP, Remington 700 action, Hart barrel, Weaver KT6 scope, 32.0 grains of H322 with Sierra 150 grain bullets, in a rifle smithed and stocked by John Ambler.

REEDS RUN

Something or other must have annoyed Ron Keim . . . on June 8th and 9th the gentleman went on a tear at Reeds Run (Augusta, Ohio), winning the grand agg in both the unlimited class and the heavy varmint class.

Unlimited class (16 shooters), 100 yards: 1.) Ron Keim .2474, 2.) Wayne Utschell .3090, 3.) Larry Mixon .3216, 4.) Stan Buchtel .3364. Small group, Jim Wakely .194. At 200 yards: 1.) Jim Wakely .3126, 2.) Ron Keim .3690, 3.) Charles Dalesandro .4031, 4.) Stan Buchtel .4379. Small group, again Jim Wakely, .362. Grand agg: 1.) Ron Keim .3082, 2.) Jim Wakely .3257, 3.) Stan Buchtel .3871, 4.) Charles Dalesandro .4008. Grand agg winner Ron Keim, of Elyria, Ohio fired a 6 BR, Stolle action, Hart barrel, Unertl 30x scope, an unspecified amount of BR powder, with his own 68 grain bullets, in a rifle smithed by Fred Hasecuster, and stocked by Stan Buchtel.

Heavy varmint class (22 shooters), 100 yards: 1.) Joe Kabel .2634, 2.) Phil Jones .2674, 3.) Stan Buchtel .2872, 4.) Ron Keim .2876. Small group, Joe Kabel .124. At 200 yards: 1.) Jim Wakely .3284, 2.) Ron Keim .3494, 3.) Duncan Daugherty .3676, 4.) Paul Campbell .3759. Small group, Paul Campbell .356. Grand agg: 1.) Ron Keim .3185, 2.) Phil Jones .3267, 3.) Jim Wakely .3285, 4.) Joe Kabel .3388. Grand agg winner Ron Keim, of Elyria, Ohio fired a 6 BR, Stolle action, Hart barrel, Lyman--Siebert scope, an unspecified amount of BR 28 powder with his own 68 grain bullets, in a rifle smithed by George Kelbly and stocked by Stan Buchtel.

Throughout the last two years, the match reports of Leora Demeter have been all that one could possibly ask for . . . a tip of the Editor's hat to the lady . . . may her tribe increase. Even if she insists on addressing me as "Mr. Brennan".

GREELY

The Northern Colorado Benchrest Shooters, on June 15th and 16th, had 34 of the local lads come on over to the Colorado sporter class championships . . . and 31 of them stayed for an accompanying light varmint class match.

In the light varmint class shindig, at 100 yards: 1.) R.C. Sumner .2598, 2.) Lowell Frei .2748, 3.) Bob Wirthlin .2860, 4.) Ralph Landon .2896, 5.) Dan Dowling .2958. Small group, a .170 by R.C. Sumner. At 200 yards: 1.) Paul Snow .3012, 2.) R.C. Sumner .3221, 3.) Lowell Frei .3281, 4.) Dan Dowling .3514, 5.) Merle Muhe .3806. Small group, .356 by Dan Dowling. Grand agg: 1.) R.C. Sumner .2910, 2.) Lowell Frei .3015, 3.) Dan Dowling .3236, 4.) Paul Snow

.3368, 5.) Ralph Landon .3385. Grand agg winner R.C. Sumner, of Denver, Colorado fired a 6PPC, Hall action, McMillan barrel, Leupold 36X scope, 27.0 grains of T322 with his own 68 grain bullets, in a rifle smithed and stocked by John Ambler.

For the state sporter championship, enough of the frivolity, everyone began grinding their teeth, gripping their rifles fiercely, and concentrating so intently on range conditions that no one knew their own name at the end of the day. Colorado shooters are nobody to trifle with when state championship time rolls around, let me tell you. At 100 yards, Merle Muhe was first, with a .2826, and then it was: 2.) Dan Dowling .2860, 3.) Rich Mutz .2980, 4.) Vern Seeley .3122, 5.) Bob Schneider .3212. Small group honors went to the recent days small group demon, Dan Dowling, for his .124. At 200 yards Bob Wirthlin was just getting warmed up for Midland: 1.) Bob Wirthlin .3562, 2.) Lowell Frei .3806, 3.) Merle Muhe .4056, 4.) Paul Snow .4245, 5.) Rich Mutz .4562. Small group, Bob Wirthlin .436. Grand agg: 1.) Merle Muhe .3441, 2.) Lowell Frei .3698, 3.) Paul Snow .3735, 4.) Rich Mutz .3771, 5.) Dan Dowling .3890. Grand agg winner Merle Muhe, of Denver, Colorado fired a 6PPC, Remington action, Hart barrel, Leupold-Siebert 30X, an unspecified amount of H322 with Berger bullets, in a rifle smithed by Dan Dowling, and stocked by Bill Pond.

Merle Muhe is to be commended for his first match win . . . and in pretty fast company. I have no idea what Lowell Frei was doing in Colorado . . . maybe he thought it was a PS Designated Match. On the other hand, Lowell certainly developed a wandering foot (two of them, actually) in 1985. Bob Wirthlin is an emerging national level shooter. R.C. Sumner is a tough shooter to deal with anywhere west of the Mississippi, Bill Pond is a national record holder, John Ambler an increasingly respected gunsmith . . . yes indeed, a tough bunch.

Oops, come back. I forgot Dan Dowling . . . who for some reason only seems interested in the small group trophies these days.

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.

NBRSA MATCH SCHEDULE

EASTERN REGION

CAMILLUS SPORTSMEN'S CLUB, Camillus, New York. Contact: Hank L. Gonnella, 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

CHIPPEWA COUNTY SHOOTING ASSOCIATION, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783

CHIPPEWA RIFLE CLUB, Easton, Ohio. Contact: Mildred Spencer, 3016 Melv Drive, Barborton, OH 44203.

FAIRCHANCE GUN CLUB, Smithfield, Pennsylvania. Contact: Royce P. Leckemby, Rt. 2, Box 21, Smithfield, PA 15478. (412) 569-7973. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

FAIRFIELD SPORTSMAN'S CLUB, Fairfield, Ohio. Contact: Jay Fouts, 1191 Dale Road, Hamilton, OH 45013. (513) 892-1715. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

HOLTON GUN AND BOW CLUB, Holton, Michigan. Contact: Theodore Geldaker, Jr. 3369 Waalkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

KANE FISH AND GAME CLUB, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

KELBLY'S RIFLE RANGE, Marshallville, Ohio. Contact: George Kelby, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

MACKINAC STRAITS SHOOTERS, St. Ignace, Michigan. Contact: Bud Hill, 11 South Boundary Road, St. Ignace, MI 49781.

MCKINLEY B.R. SHOOTERS, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

REED'S RUN RIFLE CLUB, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (216) 492-7986. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

SHELBY COUNTY DEER HUNTERS ASSOCIATION, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373. (513) 339-4833. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

GULF COAST REGION

AUSTIN RIFLE CLUB, Austin, Texas. Contact: Frank Wilson, 4904 Rollingwood, Austin, TX 78746. (512) 327-0838.

BATON ROUGE RIFLE & PISTOL CLUB, Baton Rouge, Louisiana. Contact: Jimmie Broussard, 11785 Foster Rd., Baton Rouge, LA 70811. (504) 774-7953. Nov. 3 — 100-200-300 yard Hunter class. 8:30 am. No warmup match.

CENTRAL TEXAS BENCH REST SHOOTERS, INC., New Braunfels, Texas. Contact: Tom C. Doss, Route #2, Box 2203, Boerne, Texas 78006. Home phone (512) 249-3389. Office (512) 684-5111, Ext. 3282.

DIETZ RIFLE RANGE, New Braunfels, Texas. Contact: Howard Dietz, Star Rt. 1, Box 65, New Braunfels, TX 78130. (512) 885-4662.

FORT STOCKTON RIFLE CLUB, Ft. Stockton, Texas. Contact: Larry Baggett, 507 N. Main St., Fort Stockton, TX 79735. (915) 336-6278.

HUB CITY RIFLE AND PISTOL CLUB, Lafayette, Louisiana. Contact: Louis Langlinais, 932 Hugh Wallis Road, Lafayette, LA 70501. (318) 235-8978.

MIDLAND SHOOTERS, INC., Midland, Texas. Contact: Jef Fowler, P.O. Box 6421, Midland, TX 79701. (915) 563-4341.

NAVARRO GUN CLUB, Corsicana, Texas. Contact: Robert Hull, Box 488, Corsicana, TX 75110. (214) 872-1868

SAN ANGELO GUN CLUB, San Angelo, Texas. Contact: Buster Reed, 2409 Waco St., San Angelo, TX 76901. (915) 949-5726.

SOUTHWEST LOUISIANA RIFLE AND PISTOL CLUB, Lake Charles, Louisiana. Contact: James Neal, Jr., 1203 California St., Lake Charles, LA 70605. (318) 477-6440.

TOMBALL GUN CLUB, Houston, Texas. Contact: Ed Brown, 6511 Richwood St., Houston, TX 77087. (713) 649-7558.

Note: All Gulf Coast Region, Louisiana State and Texas State Championships are 100 Yards & 200 Yards. Three (3) minute sight-in rule will be used, except for Hunter matches and where otherwise noted.

MID-CONTINENT REGION

COLORADO BENCHREST SHOOTERS, INC., Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6884.

KANSAS CITY MILL CREEK RIFLE CLUB, Desota, Kansas. Contact: Larry Kuse, 8112 W. 89th Street, Overland, Park, KS 66212. (913) 649-7344.

OKIE SHOOTERS, Edmond, Oklahoma. Contact: Rex Reneau, 7409 N.W. 28 Terr., Bethany, OK 73008. (405) 787-8529. Sept. 14 — 10½ pound, and unlimited (5 shot) 1:00 pm

SANDHILL RIFLE AND PISTOL CLUB, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

SPRINGFIELD RIFLE CLUB, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 865-5790.

TULSA BENCHREST CLUB, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC., Greeley, Colorado. Contact: John Ambler, 2025 Cheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

REGIONAL POLICY: NO WARM UP MATCHES WILL BE FIRED. THREE MINUTES WILL BE ALLOWED PRIOR TO THE FIRST RECORD MATCH AT EACH YARDAGE TO GET ON PAPER.

MISSISSIPPI VALLEY REGION

B & R GUN CLUB, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108. All matches will start at 9:00 a.m. Warm up matches WILL BE fired.

BEESON'S RIFLE RANGE, Etna Green, Indiana. Contact: Jon Leu, 860 US Hwy 30 East, #10, New Haven, IN 46774. (219) 749-9810.

BENCHREST RIFLE CLUB OF ST. LOUIS, St. Louis Missouri. Contact: Art Freund, 1038 Hornsby Avenue, St. Louis, MO 63147. (314) 388-1352. (NO WARM UP MATCHES).

EGYPTIAN RIFLE AND PISTOL CLUB, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedar Lane 15, Carbondale, Illinois 62901.

NORTH CENTRAL REGION

ATCHINSON RIFLE CLUB, Cooperstown, North Dakota. Contact: Richard Reiten, P.O. Box 589, Cooperstown, ND 58425. (701) 797-2668.

BUFFALO RIFLE CLUB. Contact: L. Mosebar, P.O. Box 284, Story, WY 82842.

CEDAR RAPIDS BENCHREST CLUB, Cedar Rapids, Iowa. Contact: Ed Kvarda, 2406 Ellis Boulevard, N.W. Cedar Rapids, IA 52405. (319) 396-0017.

COUNCIL BLUFF RIFLE AND PISTOL CLUB, Council Bluff, Iowa. Contact: Robert Dodd, 8230 Wilson Drive, Ralston, NE 68127. (402) 331-9529.

DAKOTA BENCHREST SHOOTERS CLUB, Sioux Falls, South Dakota. Contact: Daryl Jensen, 615 South Willow Street, Sioux Falls, SD 57105. (605) 338-4118.

MINNETONKA GAME AND FISH CLUB, St. Francis, Minnesota. Contact: Don Judd, 645 20th Avenue, N.W., New Brighton, MN 55112. (612) 633-6799.

OAK HILLS GUN CLUB, Blue Grass, Iowa. Contact: James J. Bounds, 3802 26 Street, Moline, Illinois 61265. Phone (home) (309) 762-1732; (work) (309) 762-6783. Warm-up matches will be shot at all matches. All matches start at 9:00 am. Special class factory rifles at all matches.

PRAIRIE DOG TARGET CLUB, Porcupine, South Dakota. Contact: Don Deckert, R.R., Porcupine, SD 57772. (605) 288-1919.

PRICKLY PEAR SPORTSMEN'S ASSOCIATION, Helena, Montana. Contact: Lee Andrews, 401 S. California St., Helena, Montana 59604. (406) 442-9813.

RIVER CITY RIFLE AND PISTOL CLUB, Mason City, Iowa. Contact: Terry Meyer, RR 1, Box 50, Thornton, Iowa 50479. (515) 998-2860.

WILTON RIFLE CLUB, Muscatine, Iowa. Contact: Dennis Shepard, 12 Debbie Avenue, Muscatine, IA 52761. (319) 264-3909.

NORTHWESTERN REGION

ENTIAT BENCH REST CLUB, #2 Canyon, Wenatchee, Washington. Contact: Bob Miller, Box 395, Entiat, WA 98822. (509) 784-1648. All matches start at 8:00 am.

LaGRANDE RIFLE AND PISTOL CLUB, LaGrande, Oregon. Contact: Greg Vergari, Rr. #4, Box 4411, LaGrande, Oregon 97850. (503) 963-0529

NAMKA BENCHREST SHOOTERS CLUB, Calgary, Alberta, Canada. Contact: Al Mirdoch, Box 3070, Station B, Calgary, Alberta, Canada T2M-4L6. (403) 242-5679.

PUGET SOUND BENCHREST RIFLE CLUB, Issaquah, Washington. Contact: Bill Crosby, P.O. Box 125, Edmonds, WA 98020. (206) 743-2477. All matches start at 9:00 am, 10:00 am on Sundays.

SNOW SHOE GUN CLUB, Kenai, Alaska. Contact: Steve Meyer, P.O. Box 125, Kenai, Alaska 99611.

TRI-COUNTY GUN CLUB, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beatie Road, Oregon City, Oregon 97045. (503) 632-4673.

WESTERN MONTANA FISH AND GAME ASSOCIATION, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719. All matches start at 9:00 am, registration at 8:30 am.

SOUTHEASTERN REGION

SOUTHEAST REGION POLICY: NO WARM UP MATCHES: 3 MINUTE SIGHT IN PERIOD AT ALL MATCHES! All will be "on paper" before the first record match is started.

ALLEGHANY COUNTY RIFLE ASSOCIATION, Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, NC 28675. (919) 372-4847.

BUCCANEER GUN CLUB, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Drive, Wilmington, NC 28403. (919) 799-4627.

CENTRAL FLORIDA BENCHREST CLUB, Melbourne, Florida. Contact: James Hare, 5700 Palm Dr., Ft. Pierce, Fla. 33450. (305) 465-8782. Nov. 30-Dec. 1 — Florida State Championship. 30: HV & UL 100 yards. 1: LV & SP 100 yards.

CHARLOTTE RIFLE & PISTOL CLUB, P.O. Box 11183, Charlotte, NC 28209.

FAYETTE COUNTY GUN CLUB, INC., P.O. Box 212, Fayette, Alabama. Contact: Charles Lahay, 131 14th Court, N.W., Fayette, AL 35555. (205) 932-3684.

GALLATIN GUN CLUB, Gallatin, Tennessee. Contact: Charles Curtiss, Rt. 4, Box 241, Sparta, Tennessee 38583. (615) 761-2765.

GREENVILLE GUN CLUB, INC., P.O. Box 123, Greenville, South Carolina. Contact: Ed Watson, 2404 Wade Hampton Boulevard, Greenville, SC 29615. (803) 244-7948. No warm-up matches. 3 minute sight in period when you go to the bench for your first record match. Everyone will be on paper before the first record shot is fired.

ISAAK WALTON BENCHREST CLUB, Rt. 5 - 300 Manakin Rd., Midlothian, Virginia 23113.

JACKSON COUNTY SHOOTING CLUB, P.O. Box 1936, Sylva, North Carolina. Contact: James Messer, Box 2, Webster, NC 28788. (704) 586-5921.

KETTLEFOOT ROD AND GUN CLUB, P.O. Box 384, Bristol, Tennessee. Contact: Claude Smith, 2325 Westfield, Bristol, VA 24201 (703) 669-6594 or J.D. Stamper (703) 889-4329.

LONG CREEK RIFLE AND PISTOL CLUB, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum Street, Charlotte, NC 28216. (704) 399-1793. Nov. 9-10 — Southeast Region Championship. 9: LV & SP 200 yards. 10: LV & SP 100 yards.

MEMPHIS RIFLE AND REVOLVER ASSOCIATION, INC., Memphis, Tennessee. Contact: George Busby, 3387 St. Elmo, Memphis, TN 38128. (901) 372-1728.

MID-CAROLINA RIFLE CLUB, P.O. Box 814, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Drive, Lexington, SC 29072. (803) 356-3047.

PALMETTO GUN CLUB, Charleston, South Carolina. Contact: Bruce Hillman, 6220 Murray Avenue, N (Apt 6A). Hanahan, SC 29406.

RIVER BEND GUN CLUB, P.O. Box 292, Norcross, Georgia. Contact: Joe Carlisle, 31 Swinnett Drive, Apt. C-5, Lawrenceville, GA 30245. (404) 962-4687.

ROANOKE RIFLE AND REVOLVER CLUB, P.O. Box 8252, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 416B, Salem, VA 24153. (703) 362-8046.

TWIN CITY RIFLE AND PISTOL CLUB, Roanoke Rapids, North Carolina. Contact: John Reber, 2306 Old Farm Road, Roanoke Rapids, NC 27870.

VOLUNTEER RIFLE AND PISTOL CLUB, Knoxville, Tennessee. Contact: Nick Young, 10816 Kingston Pike, Knoxville, TN 37922. (615) 966-7680.

WATAUGA GUN CLUB, Boone, North Carolina. Contact: Larry Isenhour, Rt. 1, Box 284A, Zionville, NC 28698. (704) 297-3963.

WYOMING ANTELOPE CLUB, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Boulevard N., St. Petersburg, FL 33702. (813) 576-6675 (anytime).

SOUTHEAST REGIONAL ANNUAL MEETING, Greenville, S.C. — Sat., Dec. 8, 1985, 1:00 P.M.

SOUTHWESTERN REGION

ARIZONA BENCHREST SHOOTERS, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

Jan. 11 — Arizona State 3 Gun Championships. Sprtr, LV, HV - 100 yards

Jan. 12 — Arizona State 3 Gun Championships. HV, LV, Sprtr - 200 yards

CALIFORNIA BENCH REST SHOOTERS ASSOCIATION, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

CARSON RIFLE AND PISTOL CLUB, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB, Las Vegas, Nevada. Contact: Alan Ashby, 605 Salem Drive, Las Vegas, Nevada 89107. (702) 870-1701.

Nov. 2 — LV, HV, SPTR, 100 yards, Nevada State Championships **CANCELLED**

Nov. 3 — LV, HV, SPTR, 200 yards, Nevada State Championships **CANCELLED**

SOUTHERN UTAH BENCHREST ASSOCIATION, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

Nov. 16 — Southwest Regional Unlimited (10 Shot) Championships

Nov. 17 — Southwest Regional Heavy Varmint Championships

SHERWOOD

The Tri-County Gun Club, in Sherwood, Oregon hosted 11 shooters for a 100-200-300 yard sporter class match on June 22nd and 23rd.

At 100 yards: 1.) Del Bishop .3130, 2.) Jim Folwell .3574, 3.) Bill Trommer .3852. Small group honors went to Dan Lilja, the barrel-maker of Plains, Montana, for a .123 figure. At 200 yards: 1.) George Bowerman .3569, 2.) Del Bishop .3949, 3.) Bill Trommer .4328. Small group, a .514 by Del Bishop. At 300 yards: 1.) Del Bishop .4114, 2.) Bill Trommer .4744, 3.) Bill Campbell .5178. Grand agg: 1.) Del Bishop .3781, 2.) Bill Tommer .4308, 3.) Dan Lilja .4822.

Grand agg winner Del Bishop, of Castle Rock, Washington fired a 6 PPC, Hall action, Gary Schneider barrel, Leupold--Siebert 36x scope, and 29.0 grains of H 322 with 70 grain Simonson bullets (kindly note this to be a hefty load).

— ERRATA —

It has been pointed out to the editor, by a vary gracious lady that the lady on page 38 of the August issue, presenting the two gun trophy for the 1985 Super Shoot to Lester Bruno is not Edith Culver . . . but rather is Mrs. Stolle.

Editors are not supposed to make dumb mistakes such as this. The editor has been sentenced to spend eternity looking for a primer dropped into the sand at Midland, Texas.

The error is regretted. I have always had a tendency to confuse the names of movie starlets.

NEW MONTANA RANGE

Lee Andrews, of Helena, Montana was kind enough to send the editor a few photos of the new range set-up at the Prickly Pear Sportsmen's Association, Helena, Montana.

The new range certainly looks like a nice piece of work, and it's obvious that a decent

amount of work went into it. But perhaps even more impressive is the 1981 vintage photo of a "winter league" match underway at Helena. That, sir, is determination, and supports the theory that those who really want to shoot . . . will find a way. It is obvious from the photo that it is snowing out, and there is no overhead cover visible to me.



NBRSA TARGETS

Stock Number	Description	Price
BR-100	100 yard benchrest target	\$ 40.00 per 1,000
BR-200	200 yard benchrest target	\$ 40.00 per 1,000 -
BR-300	300 yard benchrest target	\$160.00 per 1,000
HBR-100	100 yard hunter target	\$ 70.00 per 1,000
HBR-200	200 yard hunter target	\$ 70.00 per 1,000
HBR-300	300 yard hunter target	\$160.00 per 1,000

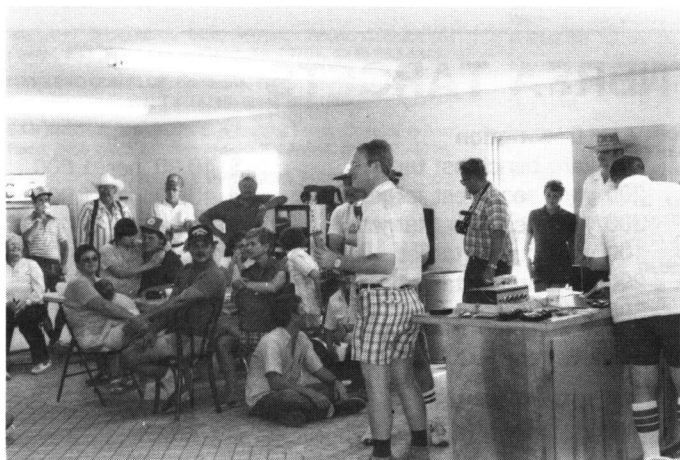
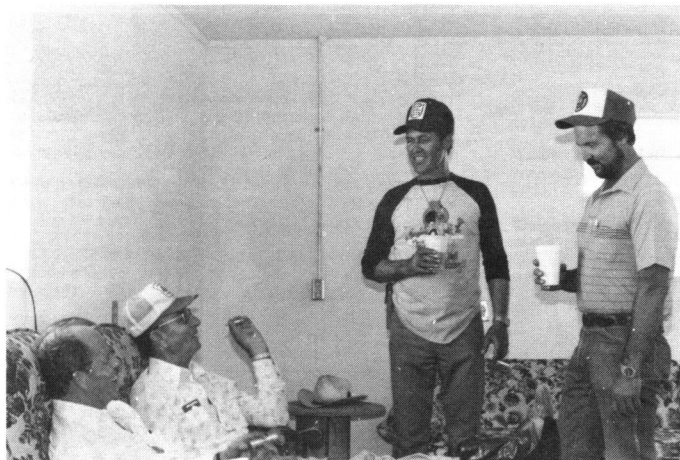
Prices shown are F.O.B. Barberton, Ohio

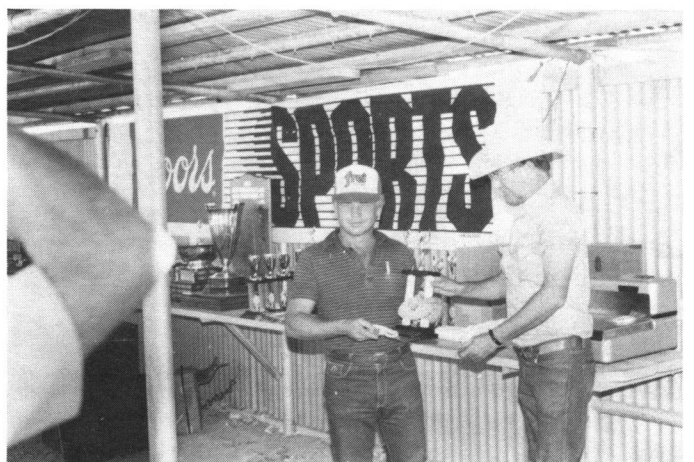
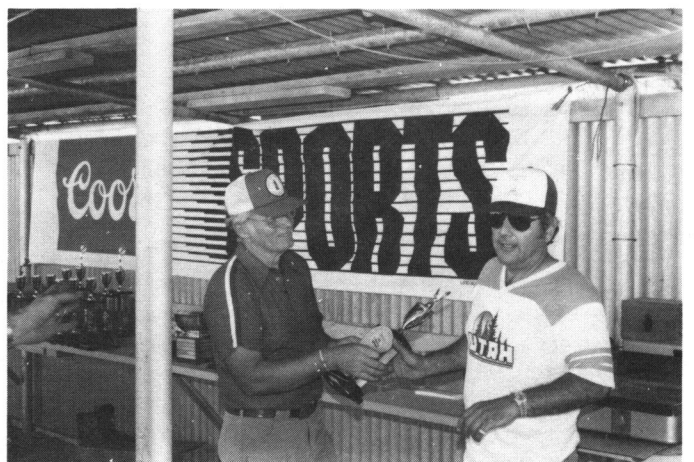
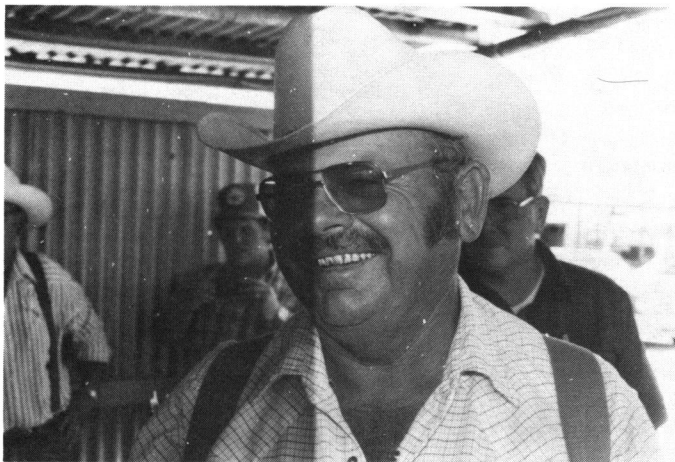
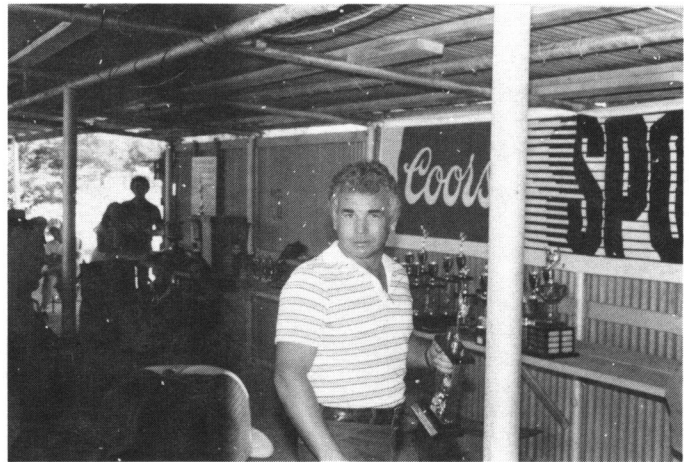
Order from: Stella Buchtel, 5735 Sherwood Forest Drive
Akron, Ohio 44319

1985 NBRSA NATIONALS

MIDLAND, TEXAS

Photos courtesy of Bill Zachary





SCHNEIDER
SNYDER 14

PORCUPINE

Don Deckert opened the ranch gates at his Porcupine, South Dakota on June 1st and 2nd, and 16 unlimited class shooters and 25 sporter class shooters ambled through. Seems to be a good lesson here be a little careful about opening your ranch gates without carefully looking up and down the road first there could be all sorts of undesirable types lurking about, waiting for just such an opportunity. You can never be too cautious in Porcupine, South Dakota. I have always put the door-locks down when driving through Porcupine myself.

In the unlimited class, at 100 yards, Bill Pond really got out in front of the horse race: 1.) Bill Pond .4796, 2.) Don Deckert .5826, 3.) John Ambler .5986, 4.) Jim Smola .6066, 5.) R.C. Sumner .6072. Small group was R.C. Sumner's .338. At 200 yards, either everyone at the Prairie Dog Target Club had suddenly forgotten all they knew about benchrest shooting or conditions had gone to blazes: 1.) R. C. Sumner .7496, 2.) John Ambler .8333, 3.) Bill Pond .9487, 4.) Bob Kokott 1.0098, 5.) Don Deckert 1.0156 (I could give you the rest of the scores, but it gets pretty gruesome.) Small group was R.C. Sumner's .713. Grand agg, not surprisingly, went to the 200 yard winner: 1.) R.C. Sumner .6784, 2.) Bill Pond .7142, 3.)

John Ambler .7160, 4.) Don Deckert .7991, 5.) Bob Kokott .8875. Grand agg winner R.C. Sumner fired a 6 PPC, Weber action, Hart barrel, Leupold 36 scope, and an unspecified amount of T 322 with his own 68 grain bullets, and Federal primers, in a rifle smithed by John Ambler, and stocked by Bill Hall.

In the sporter class, conditions had apparently improved a bit: 1.) John Ambler .2680, 2.) Jim Boulden .2876, 3.) Merle Mune .2946, 4.) Karen Prokosch .2976, 5.) Bill Pond .3290. Small group was Bob Kokott's .142. At 200 yards: 1.) Duane Kudlock .3729, 2.) Bob Kokott .4520, 3.) Ed Reiten .4545, 4.) Jim Burr .4569, 5.) Dan Dowling .4796. Small group was Tom Dickensheet's .378. Grand agg time, and they keep giving the big trophy to the guy that won 200 yards at Porcupine: 1.) Duane Kudlock .3717, 2.) John Ambler .4068, 3.) Bob Kokott .4101, 4.) Dan Dowling .4158, 5.) Karen Prokosch .4194 (yes, Mike was at the match). Grand agg winner Duane Kudlock fired a 6 PPC, Hall action, Hart barrel, 27.0 grains of T 322 with Hollister bullets and Federal primers, while peering through a Lyman-Siebert 30x scope, in a rifle smithed and stocked by the seer of Arvada, Colorado Dan Dowling.

The official Porcupine match bulletin insulted everyone, per usual. Even the editor and I was 2000 miles away.

VISALIA

On May 18th, 25 California shooters braved an earthquake possibility (heck, in California you brave an earthquake possibility any day you get out of bed), and went to the Visalia range for a sporter-heavy varmint class hook-out. Temperatures were in the low 90s, and there were no shark attacks.

In the sporter class, Fred Sattler buried the field at 100 yards, but had his difficulties at the longer distance. At 100 yards: 1.) Fred Sattler .2196, 2.) Ed Esswein .2520, 3.) Mel Iwatsubo .2726, 4.) Gene DeLoney .2812, 5.) Arlene Guthrie .2880. Small group, a .158 from Bill Ramsey. At 200 yards: 1.) Bill Ramsey .3438, 2.) Bill Mellor .3689, 3.) Ed Esswein .4089, 4.) Lee Six .4216, 5.) Arlene Guthrie .4234. Small group was Bill Mellor's .467. Grand agg: 1.) Bill Ramsey .3195, 2.) Ed Esswein .3305, 3.) Fred Sattler .3473, 4.) Mel Iwatsubo .3537, 5.) Arlene Guthrie .3552. Grand agg winner Bill Ramsey, of Fremont, California fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, and unspecified amount of 322 powder with Berger bullets, in a rifle smithed by Mel Iwatsubo, and stocked by Lee Six.

When the heavy varmint class rolled around, well, Fred Sattler might have faltered in the 200 yard stage of the sporter class, but that was all the faltering that Mr. Sattler was to do this weekend Mr. Sattler took over the heavy varmint class as if it were his personal sandbox. At 100 yards: 1.) Fred Sattler .2322, 2.) Dennis Thornbury .2702, 3.) Gene DeLoney .2858, 4.) Lee Large .2882, 5.) Leonard Quesada .2902. Small group was Fred Sattler's .123. At 200 yards: 1.) Fred Sattler .2572, 2.) Gene DeLoney .2746, 3.) Dennis Thornbury .2925, 4.) Robert Stasco .3256, 5.) Bill Mellor .3580. Small group was Gene DeLoney's .365. Grand agg: 1.) Fred Sattler .2447 (anybody getting tired of that name yet?), 2.) Gene DeLoney .2802, 3.) Dennis Thornbury .2814, 4.) Bill Mellor .3347, 5.) Lee Large .3479. Grand agg winner Fred Sattler, of Fresno, California fired a .22 PPS (a shortened PPC), Hall action, Shilen barrel, Leupold 36x scope, 27.3 grains of H 335 powder, with Berger 52 grain bullets, in a riflesmithed and stocked by himself.

MEMBERSHIP IN NBRSA

The cost of NBRSA Membership is only \$25.00 including a subscription to PRECISION SHOOTING. Associate Memberships are available only to the spouses and children under 18 of current NBRSA members, cost \$5.00 per year and includes all privileges except receipt of PRECISION SHOOTING. Outside the U.S. and Canada: Surface mail - \$37.50. Air Mail \$55.00

Send your check and application (which need not be on an official form) to Mrs. Stella Buchtel, Secretary NBRSA, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

NAME _____

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CITY _____ STATE _____ ZIP _____